

4320

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4748

Met	Phe	Lys	Leu	Tyr	Ser	Ser	Leu	Ala	Arg	Met	Xaa	Asn	Thr	Cys	Ala
1					5				10					15	

Leu	Lys	Ala	Asn	Arg	Glu	Arg	Val	His	Asn	Ile	Leu	Gln	Xaa	Leu	Lys
			20					25					30		

His	Asn	Leu	Xaa	His	His	Leu	Pro	Leu	Ala	Asn	Ile	Pro	Ser	Gln	Leu
		35					40					45			

Phe	Ser	Arg	Glu	Glu	Pro	Phe	Lys	Leu	Trp	Ser	Ser	Ile	Tyr	Tyr	Phe
	50						55				60				

His

65

<210> 4749

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4749

4321

Arg Asn Ala Lys Val Gly Xaa Gly Val Val Ala His Ala Cys Gly Pro
 1 5 10 15

Gly Cys Leu Gly Gly Trp Xaa Gly Arg Ile Ala
 20 25

<210> 4750

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4750

Ser Ser Tyr Ser Lys Ile Ser Leu Arg Asn Ser Ser Lys Val Thr Glu
 1 5 10 15

Ser Ala Ser Val Xaa Gln Ser Gln Asp Val Ser Gly Ser Glu Asp Thr
 20 25 30

Phe Pro Asn Lys Arg Pro Arg Leu Glu Asp Lys Thr Val Phe Asp Asn
 35 40 45

Phe Phe Ile Lys Lys Glu Gln Ile Lys Ser Ser Gly Asn Asp Pro Lys
 50 55 60

Tyr Ser Thr Thr Thr Ala Gln Asn Ser Ser Ser Ser Ser Gln Ser
 65 70 75 80

Lys Met Val Asn Cys Pro Val Cys Gln Asn Glu Val Leu Glu Ser Gln
 85 90 95

Ile Asn Glu His Leu Asp Trp Cys Leu Glu Gly Asp Ser Ile Lys Val
 100 105 110

Xaa Ser Glu Glu Ser Leu
 115

<210> 4751

4322

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4751

Pro	Thr	Arg	Pro	Pro	Gln	Ala	Asn	Arg	Gly	Val	Val	Arg	Trp	Glu	Tyr
1				5					10					15	

Phe	Arg	Leu	Arg	Pro	Leu	Arg	Phe	Arg	Ala	Pro	Ala	Leu	Arg	Leu	Gln
			20					25					30		

Lys	Ser	Gln	Ser	Ser	Asp	Leu	Leu	Glu	Arg	Glu	Arg	Glu	Ser	Val	Leu
		35					40					45			

Arg	Arg	Glu	Gln	Glu	Val	Xaa	Glu	Glu	Arg	Arg	Asn	Ala	Leu	Phe	Pro
		50					55				60				

Glu	Val	Phe	Ser	Pro	Thr	Pro	Asp	Glu	Asn	Ser	Asp	Gln	Asn	Ser	Arg
65					70					75					80

Ser	Ser	Ser	Gln	Ala	Ser	Gly	Ile	Thr	Gly	Ser	Tyr	Ser	Val	Ser	Glu
				85					90					95	

Ser	Pro	Phe	Phe	Ser	Pro	Ile	His	Leu	His	Ser	Asn	Val	Ala	Trp	Thr
			100					105					110		

Val	Glu	Asp	Xaa	Val	Asp	Ser	Ala	Pro	Pro	Gly	Gln	Arg	Lys	Lys	Glu
		115					120					125			

Gln	Trp	Tyr	Ala	Gly	Ile	Asn	Pro	Ser	Asp	Gly	Ile	Asn	Ser	Glu	Val
	130					135					140				

Leu	Glu	Ala	Ile	Arg	Val	Thr	Arg	His	Lys	Asn	Ala	Met	Ala	Glu	Arg
145					150					155					160

Trp	Glu	Ser	Arg	Ile	Tyr	Ala	Ser	Glu	Glu	Asp	Asp
				165						170	

<210> 4752

4323

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4752

Glu	Trp	Glu	Cys	Trp	Leu	Leu	Leu	Gln	Tyr	Trp	Ser	Leu	Tyr	Thr	Val
1				5				10						15	

Leu	His	Thr	Arg	Phe	Phe	Ser	Gly	Tyr	Met	Ser	Phe	Leu	Ser	Lys	Leu
			20					25						30	

Cys	Gly	Ser	His	Glu	Glu	Thr	Ser	Asn	Gln	Gly	Lys	Gly	Glu	Gly	Leu
			35					40				45			

Arg	His	Lys	Thr	Tyr	Leu	Tyr	Lys	Ile	Ser	Phe	Lys	Asn	Ser	Asn	Leu
							55				60				

Gly	His	Val	Lys	Phe	Phe	Tyr	Ile	Phe	Ser	Cys	Leu	Asn	Leu	Ser	Ser
						70				75					80

Phe	Phe	Met	Leu	Cys	Ser	Ala	Arg	Lys	Cys	Gly	Glu	Met	Asp	Xaa	Gly
				85					90					95	

Gly	Cys	Gly	Xaa	Asp	Arg	Trp	Leu	Gly	Ser	Thr	Cys	Leu	Cys	Leu	Phe
			100					105					110		

Pro	Phe	Met	Cys	Ser	Cys	Val
						115

<210> 4753

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

4324

<400> 4753

Xaa Gly Arg Ala Trp Val Met Ala Ala Pro Gly Ala Leu Leu Val Met
 1 5 10 15
 Gly Val Ser Gly Ser Gly Lys Ser Thr Val Gly Ala Leu Leu Ala Ser
 20 25 30
 Glu Leu Gly Trp Lys Phe Tyr Asp Ala Asp Asp Tyr His Pro Glu Glu
 35 40 45
 Asn Arg Arg Lys Met Gly Lys Gly Ile Pro Leu Asn Asp Gln Asp Arg
 50 55 60
 Ile Pro Trp Leu Cys Asn Leu His Asp Ile Leu Leu Arg Asp Val Ala
 65 70 75 80
 Ser Gly Gln Arg Val Val Leu Ala Cys Ser Ala Leu Lys Lys Thr Tyr
 85 90 95
 Arg Asp Ile Leu Thr Gln Gly Lys Asp Gly Val Ala Leu Lys Cys Glu
 100 105 110
 Glu Ser Gly Lys Glu Ala Lys Gln Ala Glu Met Gln Leu Leu Val Val
 115 120 125
 His Leu Ser Gly Ser Phe Glu Val Ile Ser Gly Arg Leu Leu Lys Arg
 130 135 140
 Glu Gly His Phe Met Pro Pro Glu Leu Leu Gln Ser Gln Phe Glu Thr
 145 150 155 160
 Leu Glu Pro Pro Ala Ala Pro Glu Asn Phe Ile Gln Ile Ser Val Asp
 165 170 175
 Lys Asn Val Ser Glu Ile Ile Ala Thr Ile Met Glu Thr Leu Lys Met
 180 185 190

Lys

<210> 4754

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

4325

<400> 4754

Gln Asp His Gly Ala Trp Leu Arg Gly Gly Asp Val Trp Leu Asp Ser
 1 5 10 15
 Cys Arg Phe Ala Asp Asn Gly Ile Gly Leu Thr Leu Ala Ser Gly Gly
 20 25 30
 Thr Phe Pro Tyr Asp Asp Gly Ser Lys Gln Glu Ile Lys Asn Ser Leu
 35 40 45
 Phe Val Gly Glu Ser Gly Asn Val Gly Thr Glu Met Met Asp Asn Arg
 50 55 60
 Ile Trp Gly Pro Gly Gly Leu Asp His Ser Gly Arg Thr Leu Pro Ile
 65 70 75 80
 Gly Gln Asn Phe Pro Ile Arg Gly Ile Gln Leu Tyr Asp Gly Pro Ile
 85 90 95
 Asn Ile Gln Asn Cys Thr Phe Arg Lys Phe Val Ala Leu Glu Gly Arg
 100 105 110
 His Thr Ser Ala Leu Ala Phe Arg Leu Asn Asn Ala Trp Gln Ser Cys
 115 120 125
 Pro His Asn Asn Val Thr Gly Ile Ala Phe Glu Asp Val Pro Ile Thr
 130 135 140
 Ser Arg Val Phe Phe Gly Glu Pro Gly Pro Trp Phe Asn Gln Leu Asp
 145 150 155 160
 Met Asp Gly Asp Lys Thr Ser Val Phe His Asp Val Asp Gly Ser Val
 165 170 175
 Ser Glu Tyr Pro Gly Xaa Tyr Leu Arg Arg Met Thr Thr Gly Trp Ser
 180 185 190
 Gly Thr

<210> 4755

<211> 500

<212> PRT

<213> Homo sapiens

<400> 4755

Ile Arg His Glu Lys Asp Arg Gly Pro Arg Arg Ser Val Ser Phe Pro
 1 5 10 15

4326

Arg Ala Leu Ser Gly Asn Met Ala Gly Val Glu Glu Val Ala Ala Ser
 20 25 30
 Gly Ser His Leu Asn Gly Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly
 35 40 45
 Ala Ala Ser Thr Ala Glu Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys
 50 55 60
 Lys Lys Ser Lys Gly Pro Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys
 65 70 75 80
 Glu Ser Gly Ala Ser Val Asp Glu Val Ala Arg Gln Leu Glu Arg Ser
 85 90 95
 Ala Leu Glu Asp Lys Glu Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly
 100 105 110
 Asp Gly Asp Gly Ala Thr Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys
 115 120 125
 Arg Gly Pro Lys Val Gln Thr Asp Pro Pro Ser Val Pro Ile Cys Asp
 130 135 140
 Leu Tyr Pro Asn Gly Val Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro
 145 150 155 160
 Pro Thr Gln Asp Gly Arg Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu
 165 170 175
 Lys Lys Ala Leu Asp Gln Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg
 180 185 190
 Glu Ala Ala Glu Ala His Arg Gln Val Arg Lys Tyr Val Met Ser Trp
 195 200 205
 Ile Lys Pro Gly Met Thr Met Ile Glu Ile Cys Glu Lys Leu Glu Asp
 210 215 220
 Cys Ser Arg Lys Leu Ile Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala
 225 230 235 240
 Phe Pro Thr Gly Cys Ser Leu Asn Asn Cys Ala Ala His Tyr Thr Pro
 245 250 255
 Asn Ala Gly Asp Thr Thr Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile
 260 265 270
 Asp Phe Gly Thr His Ile Ser Gly Arg Ile Ile Asp Cys Ala Phe Thr
 275 280 285

4327

Val Thr Phe Asn Pro Lys Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp
 290 295 300
 Ala Thr Asn Thr Gly Ile Lys Cys Ala Gly Ile Asp Val Arg Leu Cys
 305 310 315 320
 Asp Val Gly Glu Ala Ile Gln Glu Val Met Glu Ser Tyr Glu Val Glu
 325 330 335
 Ile Asp Gly Lys Thr Tyr Gln Val Lys Pro Ile Arg Asn Leu Asn Gly
 340 345 350
 His Ser Ile Gly Gln Tyr Arg Ile His Ala Gly Lys Thr Val Pro Ile
 355 360 365
 Val Lys Gly Gly Glu Ala Thr Arg Met Glu Glu Gly Glu Val Tyr Ala
 370 375 380
 Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Val Val His Asp Asp Met
 385 390 395 400
 Glu Cys Ser His Tyr Met Lys Asn Phe Asp Val Gly His Val Pro Ile
 405 410 415
 Arg Leu Pro Arg Thr Lys His Leu Leu Asn Val Ile Asn Glu Asn Phe
 420 425 430
 Gly Thr Leu Ala Phe Cys Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser
 435 440 445
 Lys Tyr Leu Met Ala Leu Lys Asn Leu Cys Asp Leu Gly Ile Val Asp
 450 455 460
 Pro Tyr Pro Pro Leu Cys Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe
 465 470 475 480
 Glu His Thr Ile Leu Leu Arg Pro Thr Cys Lys Glu Val Val Ser Arg
 485 490 495
 Gly Asp Asp Tyr
 500

<210> 4756

<211> 76

<212> PRT

<213> Homo sapiens

<400> 4756

4328

Ala Leu Ala Ile Ala Glu Lys Ser Gln Glu Phe Leu Glu Ala Asp Asn
 1 5 10 15
 Arg Gln Leu Pro Asn Gly Val Tyr Thr Thr Ala Glu Gln Arg Pro Asn
 20 25 30
 Ala Tyr Ile Pro Glu Ala Asp Ala Thr Leu Pro Leu Pro Lys Pro Tyr
 35 40 45
 Gly Ala Leu Ala Pro Phe Lys Pro Ser Glu Pro Gly Ala Asn Met Arg
 50 55 60
 His Ile Arg Lys Pro Val Ile Lys Pro Val Glu Ile
 65 70 75

<210> 4757

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4757

Met Ala Tyr Thr Ile Pro Val Ile Ile Val Gly Gly Cys Trp Phe Ala
 1 5 10 15
 Trp Arg His Gln Ser Ser Asp Glu Xaa Ile Asp Tyr Phe Ala Val Ser
 20 25 30
 Leu Arg Ile Ile Gly Val Leu Ala Leu Ile Leu Thr Ser Cys Gly Leu
 35 40 45

4329

Ala Ala Ile Asn Ala Asp Xaa Ile Trp Tyr Phe Ala Ser Gly Gly Val
50 55 60
Xaa Gly Ser Leu Leu Ser Thr Xaa Leu Gln Pro Leu Leu His Ser Ser
65 70 75 80
Gly Gly Thr Ile Ala Leu Leu Cys Val Trp Ala Ala Gly Leu Thr Leu
85 90 95
Phe Thr Gly Trp Ser Trp Val Thr Leu Leu Lys Asn Ser Ala Ala Gly
100 105 110
Phe

<210> 4758
<211> 111
<212> PRT
<213> Homo sapiens

<400> 4758
Thr Ile Cys Val Val Arg Gly Ala Thr Ala Ile Ser Ala Glu Leu Gly
1 5 10 15
Gly Ile Ser Thr Thr Phe Leu Ser Ala Glu Ala Phe Pro Pro Thr Leu
20 25 30
Met Leu Phe Asn Ser Val Leu Arg Gln Pro Gln Leu Gly Val Leu Arg
35 40 45
Asn Gly Trp Ser Ser Gln Tyr Pro Leu Gln Ser Leu Leu Thr Gly Tyr
50 55 60
Gln Cys Ser Gly Asn Asp Glu His Thr Ser Tyr Gly Glu Thr Gly Val
65 70 75 80
Pro Val Pro Pro Phe Gly Cys Thr Phe Ser Ser Ala Pro Asn Met Glu
85 90 95
His Val Leu Ala Val Ala Asn Glu Glu Gly Phe Cys Ser Ile Val
100 105 110

<210> 4759
<211> 157
<212> PRT
<213> Homo sapiens

4330

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4759

Ala	Gly	Glu	Arg	Asp	Gln	Gly	Arg	Arg	Arg	Gly	Glu	Ser	Arg	Glu	Gly
1				5					10					15	

Trp	Ser	Phe	Gly	Glu	Ser	Leu	Trp	Lys	Met	Ala	Pro	Val	Val	Thr	Gly
			20					25					30		

Lys	Phe	Gly	Glu	Arg	Pro	Pro	Pro	Lys	Arg	Leu	Thr	Arg	Glu	Ala	Met
		35					40					45			

Arg	Asn	Tyr	Leu	Lys	Glu	Arg	Gly	Asp	Gln	Thr	Val	Leu	Ile	Leu	His
	50					55					60				

Ala	Lys	Val	Ala	Gln	Lys	Ser	Tyr	Gly	Asn	Glu	Lys	Arg	Phe	Phe	Cys
65					70					75					80

Pro	Pro	Pro	Cys	Val	Tyr	Leu	Met	Gly	Ser	Gly	Trp	Lys	Lys	Lys	Lys
				85					90					95	

Glu	Gln	Met	Glu	Arg	Asp	Gly	Cys	Ser	Glu	Gln	Glu	Ser	Gln	Pro	Cys
		100						105					110		

Ala	Phe	Ile	Gly	Xaa	Gly	Asn	Ser	Asp	Gln	Glu	Met	Gln	Gln	Leu	Asn
		115					120					125			

Leu	Gly	Arg	Lys	Xaa	Leu	Leu	His	Ser	Gln	Thr	Leu	Tyr	Ile	Ser	Xaa
	130					135					140				

Ser	Ala	Ser	Glu	Asp	Phe	His	Val	Val	Cys	Lys	Val	Phe
145					150					155		

<210> 4760

<211> 60

4331

<212> PRT

<213> Homo sapiens

<400> 4760

Leu Arg Met Cys Glu Lys Leu Thr Glu Pro Asp Ala Cys Cys Tyr Phe

1

5

10

15

Thr Ala Met Ser Leu Phe Leu Ser Thr Leu Lys Ile Phe Phe Leu Phe

20

25

30

Asn Val Val Tyr Phe Gly Leu Arg Asn Asn Cys Ser Val Glu Asn Asn

35

40

45

Pro Leu Ser Glu Lys Lys Val Ala Thr Thr Ser Phe

50

55

60

<210> 4761

<211> 460

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (436)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (442)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (444)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (447)

4332

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (448)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4761

Leu	Asp	Ala	Pro	Leu	Asp	Thr	Phe	Asn	Gly	Asn	Arg	Phe	Ala	Leu	Arg
1				5					10					15	

Leu	Thr	Ala	Ile	Phe	Leu	Gln	Pro	Leu	Gly	Lys	Leu	Val	Val	Arg	Ala
			20					25						30	

Leu	His	Gly	Pro	Trp	Asn	Thr	Asp	Ser	Pro	Asp	Asn	Leu	Glu	Glu	Val
		35					40					45			

Lys	Phe	Leu	Leu	His	Met	Trp	Val	Ala	Leu	Phe	Tyr	Ser	Asn	Gln	Asn
	50					55					60				

Lys	Ile	Ile	Arg	Ser	Ser	Arg	Lys	Val	Val	Glu	His	Ser	Asn	Pro	Ala
65					70					75					80

Lys	Tyr	Val	Ser	Ile	Asn	Ser	Thr	Leu	Glu	Ser	Cys	Glu	Leu	Arg	Glu
				85					90						95

Ile	Glu	Glu	Ser	Leu	Gly	Leu	Glu	Lys	Cys	Ser	Ala	Asp	Ser	Leu	Leu
			100					105					110		

Glu	Thr	Asn	Glu	Ile	Ser	Arg	Ala	His	Ala	Ala	Glu	Val	Ser	Phe	Arg
		115					120						125		

Asp	Pro	Asn	Cys	Leu	Leu	Pro	Phe	Ile	Lys	Thr	Pro	Leu	Thr	Gln	Gly
	130					135					140				

Leu	Glu	Leu	Cys	Val	Gln	Asn	Glu	Gln	Lys	Lys	Thr	Phe	Ala	Arg	Glu
145					150					155					160

Cys	Asp	Pro	Asp	Thr	Gln	Glu	Asp	Gln	Asn	Phe	Ile	Cys	Ser	Tyr	Asn
				165					170					175	

Asn	Glu	Val	Thr	Gly	Glu	Glu	Ala	Lys	Gln	Glu	Ser	Leu	Glu	Thr	Ser
			180					185						190	

Asn	Leu	Val	Leu	Ser	Gly	Ile	Gly	Ser	Thr	Gln	Thr	Asn	Gly	Pro	Ser
		195					200						205		

Val	Pro	Ser	Glu	Glu	Glu	Ile	Val	Gln	Pro	Leu	Asp	Ser	Thr	Arg	Val
	210					215					220				

Ala	Ser	Tyr	Ser	Gly	Thr	Val	Thr	Gln	Ala	Thr	Phe	Thr	Arg	Thr	Tyr
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4333

225											230											235											240
Asp	Gly	Pro	Gly	Ser	Gln	Pro	Val	Ile	Cys	Gln	Ser	Ser	Val	Tyr	Gly																		
				245							250							255															
Thr	Leu	Glu	Asn	Lys	Val	Asp	Ile	Leu	Asp	Ala	Ala	Val	Gln	Thr	Lys																		
				260							265							270															
Thr	Gly	Thr	Leu	Gln	Asp	Leu	Ile	Gln	His	Gly	Ser	Pro	Ile	Asn	Asn																		
				275							280							285															
Glu	Cys	His	Pro	Ser	Leu	Glu	Arg	Lys	Asp	Asp	Asn	Met	Gly	Xaa	Ala																		
				290							295							300															
Xaa	Ile	Asn	Pro	Glu	Pro	Ile	Thr	Leu	Thr	Phe	Glu	Lys	Asn	Ala	His																		
305								310							315							320											
Val	Pro	Ile	Gln	Thr	Glu	Gly	Val	Asn	Thr	Ala	Asp	Glu	Pro	Thr	Thr																		
				325							330							335															
Phe	Lys	Lys	Glu	Leu	Ile	Lys	Gln	Val	Ser	Pro	Ala	Ala	Ser	Leu	Arg																		
				340							345							350															
His	Pro	Val	Ser	Thr	Ser	Glu	Asn	Ala	Arg	Thr	Gln	Gly	Leu	Arg	Asp																		
				355							360							365															
Ile	Pro	Ser	Leu	Val	Val	Ala	Gly	Gln	Lys	Gly	Thr	Lys	Tyr	Leu	Cys																		
				370							375							380															
Ala	Ser	Ser	Val	Gly	Gly	Glu	Thr	Leu	Asp	Lys	Ala	Val	Cys	Ser	Leu																		
385								390							395							400											
Gln	Lys	Glu	Thr	Pro	Leu	Pro	Val	Ser	Leu	Pro	Ser	Asp	Lys	Thr	Met																		
				405							410							415															
Val	Met	Glu	Ala	Leu	Ser	Leu	Ala	Lys	Ser	Ser	Ser	His	Leu	Ser	Pro																		
				420							425							430															
Ser	Glu	Glu	Xaa	Arg	Cys	Thr	Gln	Asp	Xaa	Leu	Xaa	Gln	Thr	Xaa	Xaa																		
				435							440							445															
Leu	Leu	Gly	Leu	Ser	Leu	Glu	Arg	Leu	Leu	Arg	Thr																						
450								455							460																		

<210> 4762

<211> 72

<212> PRT

<213> Homo sapiens

4334

<400> 4762

Ala Ser Asp Pro Thr Leu Val Leu Ala Pro Gln Gln Trp Leu Pro Leu
 1 5 10 15

Thr Leu Ser Arg Arg Trp Leu Gly Gly Tyr Leu Trp Val Ala Gly
 20 25 30

Lys Gly Val Gly Arg Phe Arg Met Val Gly Gly Thr Glu Val Pro Glu
 35 40 45

Val Lys Arg Pro Leu Val Leu Thr Gly Leu Thr Arg Ala Trp Thr Leu
 50 55 60

Gly Ala Val Leu Cys Glu Leu Ala
 65 70

<210> 4763

<211> 135

<212> PRT

<213> Homo sapiens

<400> 4763

Trp Glu Pro Thr Phe Phe Gly Phe Ser Gly Glu His Asn Ser Lys His
 1 5 10 15

Pro Leu Gly Ser His Met Tyr Arg Asn Gly Thr Gln Leu Gly His Ser
 20 25 30

His Gly Leu Pro Arg Pro Gly Met Cys Gly Ala Lys Trp Gly Gln Gly
 35 40 45

Pro Asp Pro Arg Gly Glu Gly Gly Pro Gln Thr Pro Arg Asp Val Ser
 50 55 60

Ile Pro Arg Pro Ala Phe Trp Arg His Leu Pro Gly Ala Val Leu Ser
 65 70 75 80

Gln Gln Ala Trp Gly Glu Ser Leu Val Tyr Ala Gly Asn Arg Val Gln
 85 90 95

Gly Pro Ser Val Pro Pro Ser Ala Leu Thr Trp Ala Met His Pro Leu
 100 105 110

Ser Pro Lys His Lys Gln Ala Leu Leu Gln Tyr Gly Ala Arg Thr Gly
 115 120 125

Val Pro Ser Val Leu Trp Leu
 130 135

4335

<210> 4764

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4764

His	Lys	Cys	Phe	Gln	Cys	Phe	Ile	Leu	Ala	Asn	Gly	Phe	Leu	Lys	Val
1				5					10					15	

Ile	Lys	Pro	Phe	Gln	Arg	Asn	Trp	Ser	Asp	Lys	Thr	Phe	Phe	Leu	Val
			20					25						30	

Cys	Leu	Asn	Lys	Ala	Ile	Ser	Glu	Ala	Leu	Leu	Ser	Lys	Met	Thr	Phe
		35					40					45			

Leu	Ser	Phe	Phe	Lys	Thr	Asn	Leu	Leu	Leu	Glu	Thr	Phe	Cys	Thr	
	50					55				60					

Ile	Lys	Gln	Ser	Arg	Arg	Leu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
65					70				75						80

Lys	Arg	Ala	Ala	Ala	Leu	Glu	Asp	Pro	Ser	Leu	Arg	Thr	Arg	Ala	Cys
				85					90					95	

Asp	Val	Ile	Ala	Leu	Leu	Leu	Arg	Xaa	Pro						
				100				105							

<210> 4765

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

4336

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4765

Ile	Arg	His	Glu	Val	Cys	Arg	Val	Leu	Pro	Ala	Pro	Xaa	Leu	Ile	Gly
1				5				10						15	

Ala	Met	Asp	Trp	Lys	Thr	Leu	Gln	Ala	Leu	Leu	Ser	Gly	Val	Asn	Lys
		20					25						30		

Tyr	Ser	Thr	Ala	Phe	Gly	Arg	Ile	Trp	Leu	Ser	Val	Val	Phe	Val	Phe
		35					40					45			

Arg	Val	Leu	Val	Tyr	Val	Val	Ala	Ala	Glu	Arg	Val	Trp	Gly	Asp	Glu
	50					55					60				

Gln	Lys	Asp	Phe	Asp	Cys	Asn	Thr	Lys	Gln	Pro	Gly	Cys	Thr	Asn	Val
65					70				75					80	

Cys	Tyr	Asp	Asn	Tyr	Phe	Pro	Ile	Ser	Asn	Ile	Arg	Leu	Trp	Ala	Leu
			85					90						95	

Gln	Leu	Ile	Phe	Val	Thr	Cys	Pro	Ser	Leu	Leu	Val	Ile	Leu	His	Val
		100						105					110		

Ala	Tyr	Arg	Glu	Glu	Arg	Glu	Arg	Arg	His	Arg	Gln	Lys	His	Gly	Asp
		115					120					125			

Gln	Cys	Ala	Lys	Leu	Tyr	Asp	Asn	Ala	Gly	Xaa	Lys	His	Gly	Gly	Leu
	130					135					140				

Trp	Trp	Thr	Tyr	Leu	Phe	Ser	Leu	Ile	Phe	Lys	Leu	Ile	Ile	Glu	Phe
145					150					155					160

Leu	Phe	Leu	Tyr	Leu	Leu	His	Thr	Leu	Trp	His	Gly	Phe	Asn	Met	Pro
			165					170						175	

Arg	Leu	Val	Gln	Cys	Ala	Asn	Val	Ala	Pro	Cys	Pro	Asn	Ile	Val	Asp
		180						185					190		

Cys	Tyr	Ile	Ala	Arg	Pro	Thr	Glu	Lys	Lys	Ile	Phe	Thr	Tyr	Phe	Met
		195					200					205			

Val	Gly	Ala	Ser	Ala	Val	Cys	Ile	Val	Leu	Thr	Ile	Cys	Glu	Leu	Cys
	210					215					220				

Tyr	Leu	Ile	Cys	His	Arg	Val	Leu	Arg	Gly	Leu	His	Lys	Asp	Lys	Pro
225					230					235					240

4337

Arg Gly Gly Cys Ser Pro Ser Ser Ser Ala Ser Arg Ala Ser Thr Cys
245 250 255

Arg Cys His His Lys Leu Val Glu Ala Gly Glu Val Asp Pro Asp Pro
260 265 270

Gly Asn Asn Lys Leu Gln Ala Ser Ala Pro Asn Leu Thr Xaa Ile
275 280 285

<210> 4766

$\langle 211 \rangle$ 90

<212> PRT

<213> Homo sapiens

<400> 4766

Cys Thr Pro Phe Leu Tyr Thr Glu Cys Gly Leu Leu Ser Glu Ile Gly
1 5 10 15

Ser Phe Met Val Leu Glu Pro Pro Leu Tyr Ser Cys Leu Lys Phe Pro
20 25 30

Ile Val Thr Glu Asn Ile Gly Cys Lys Ala Pro Gln Ser Pro Gln Val
35 40 45

Pro Ser Val Ser Leu Asn Val Leu Val Pro Ser Arg Lys Ala Ser Ala
50 55 60

Ser Ala Pro Phe Pro Pro Val Pro Ser Pro Arg Ile Met Asn Gly Tyr
65 70 75 80

Cys Thr Val Lys Thr Val Val Ser Phe His
85 90

<210> 4767

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4767

Xaa Ser Gly Gln Lys Pro Gly Val Leu Ile Leu Pro Ser Val Ser Val
1 5 10 15

4338

Leu Gly Ser Gly Phe Cys Arg His Pro Leu Thr Ser Ala Glu Leu Leu
 20 25 30
 Gly Leu Leu Pro Ala His His Ile Ala Tyr Leu Gln Cys Gln Ser Leu
 35 40 45
 Thr Val Thr Leu Ser Ala Leu Val Ser Leu Ala Glu Pro Arg Cys Pro
 50 55 60
 Cys Ser Arg Gly Gln Lys Ala Cys Thr Trp Ala Lys Gly Pro Lys Val
 65 70 75 80
 His Trp Thr Val Gly Lys Thr Pro Asp His His Leu Arg Thr Leu Ser
 85 90 95
 Gln Asn Gly Lys Phe Thr Arg Thr Pro Phe Leu Ser Leu Cys Glu Ser
 100 105 110
 Pro Arg Glu Arg His Cys Thr Asp Ile
 115 120

<210> 4768

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4768

Phe Arg Asp His Pro Cys Lys Phe Pro Lys Asp Phe Phe Asn Met Val
 1 5 10 15

Leu Leu Ile Gln Ser Gly Gln Leu Asn Leu Lys Ser Thr Pro Xaa Lys
 20 25 30

Pro Ser Gly Val Asp Asn Lys Ala His Lys Leu Arg Gln Phe Ser Phe

4339

35 40 45
 Leu Xaa Pro Phe Arg Xaa Gly Thr Thr Thr Gly Ser
 50 55 60

 <210> 4769
 <211> 78
 <212> PRT
 <213> Homo sapiens

 <400> 4769
 Val Cys Asn Lys Ile Val Glu Ser Cys Met Ile Lys Ser Leu Leu Cys
 1 5 10 15

 Ser Glu Ile His Ser Asp Phe Leu Val Ser Pro Tyr Ile Ile Cys Ile
 20 25 30

 Leu Val Phe Phe Leu Thr Leu Leu Pro Leu Leu Pro Asn Arg Asp Leu
 35 40 45

 Asn Leu Ser Leu Phe Ser Ser Ser Arg Pro Gly Leu Val Pro Asp Ser
 50 55 60

 Ser Lys Asn Leu Asp Ser Lys Ala Tyr Phe Ile Val Cys Leu
 65 70 75

<210> 4770
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 4770
 Gln Ala Arg Ile His Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

 Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

 Ser Ala Arg Asp
 35

<210> 4771
 <211> 87
 <212> PRT
 <213> Homo sapiens

4340

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4771

Gly Ile Ser Phe Thr Leu Thr His Phe Ala Pro Leu Pro Phe Cys Tyr
 1 5 10 15

Lys Tyr Tyr His Gly Met Lys Gln Lys Ala Cys Tyr Leu Pro Phe His
 20 25 30

Asp His Phe Ala Asp Thr Val Ser Ala Thr Ser Lys Pro Ser Asn Ser
 35 40 45

Met Asn Ser Arg Thr Asp Leu Asn Val Val Cys Val Gln Gly Ser Tyr
 50 55 60

Xaa Asn Phe Leu Asn Leu Lys Cys His Gln Lys Thr Phe Cys Ser Leu
 65 70 75 80

Leu Leu Leu Phe Phe Phe Phe
 85

<210> 4772

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4772

Val Trp Leu Ala Leu Ser Val Val Gly Ser Val Tyr Thr Pro Pro Phe
 1 5 10 15

Ser Ser Leu Gly Val Phe Phe Arg Asn Pro Lys Ala Thr Leu Arg Ala
 20 25 30

Val Leu Thr Phe Leu Ser Thr Val Asp Tyr Pro Cys Leu Leu Gly Gly
 35 40 45

Leu Xaa Met Gly Gln Arg Trp Arg Ser Pro Ser Gly
 50 55 60

4341

<210> 4773

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4773

Lys Lys Lys Ser Phe Ser Glu Gly Glu Lys Ile Val Trp Val Trp Pro
1 5 10 15

Leu His Ile Leu Ala Asn Tyr Val Ala Ile Phe Met Ala Ser Val Ile
20 25 30

Lys Thr Leu Leu Leu Gly Ser Arg Ala Val Val Leu Asp Ser Leu His
35 40 45

Ser Ala His Leu Leu Lys Ser His Glu Ser Ser Leu Glu Ser
50 55 60

<210> 4774

<211> 87

<212> PRT

<213> Homo sapiens

<400> 4774

Thr Ala Gln Gly Ile Gly Cys Thr Lys Leu Val Leu Lys Leu Leu Leu
1 5 10 15

Gly Ser Pro Gly Ala His Val Ser His Leu Leu Pro Ile His Ile Ser
20 25 30

Ala His Leu Ala Glu Ala Phe Pro Asp Leu Thr Ser Asp Asn Val His
35 40 45

Val Met Asn Thr Pro Lys Trp Leu Gly Leu Leu His Leu Ser Arg Trp
50 55 60

Ile Leu Pro Gln His Trp Gly Phe Leu Trp Ala Val His His Gly Tyr
65 70 75 80

Ile Ser Gly Phe Gln Asp Cys
85

<210> 4775

<211> 70

<212> PRT

<213> Homo sapiens

4342

<400> 4775

Ala Lys Cys Met Leu Lys His Val Phe Thr Ser Val Lys Ser Phe Val
1 5 10 15

Asp Leu Leu Glu Met Lys Gly Phe Tyr Leu Asp Thr Val Ser Tyr Thr
20 25 30

Ser Leu Thr Ile Ile Phe Val Ile Val Val Phe Cys Lys Gln Lys Cys
35 40 45

Leu Trp Ala Ser Cys Arg Leu Lys Ile Val Gly Lys Asn Gly Leu Ser
50 55 60

Ser Gly Pro Phe Lys Gln
65 70

<210> 4776

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4776

Leu Asn Gln Met Ile Leu Thr Tyr Tyr Glu Gly Glu Glu Val Asn Ala
1 5 10 15

Gly Arg Ile Gly Leu Thr Leu Val Val Ala Gly Met Val Gly Ser Ile
20 25 30

Leu Cys Gly Leu Trp Leu Asp Tyr Thr Lys Thr Tyr Asn Phe Phe Met
35 40 45

Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu Ile Thr Tyr
50 55 60

4343

Pro Glu Ser Glu Gly Thr Ser Ser Gly Leu Leu Asn Ala Ser Ala Gln
 65 70 75 80

Ile Phe Gly Ile Leu Phe Thr Leu Ala Gln Gly Lys Leu Thr Ser Xaa
 85 90 95

Tyr Gly Pro Lys Ala Gly Asn Ile Xaa Leu Cys Val Trp Met Phe Ile
 100 105 110

Xaa Ile Ile Leu Thr Ala Leu Ile Lys Ser Asp Leu Arg Asp Thr Thr
 115 120 125

<210> 4777

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4777

Thr Asn Asp Tyr Lys Val Ser Val Gly Leu Trp Phe Arg Gly Pro Ser
 1 5 10 15

Xaa Ser Phe Leu Phe Pro Leu Ala Leu Met Arg Glu Met Pro Ser Ser
 20 25 30

Val Trp Ile Phe Leu Gly Ala Leu Trp Arg Asn Gly Val Cys Val Leu
 35 40 45

Thr Glu Glu Ser Gln Lys Xaa Glu Thr Ile Phe Ile Tyr Cys His His
 50 55 60

4344

Lys Tyr Ser Pro Pro Phe Lys Met Pro Val Tyr Thr Ala Ile Trp Glu
 65 70 75 80

Thr Xaa Val Leu Glu Glu Ala Gly Ala Glu Gly Val Lys Thr Ser Ser
 85 90 95

Val Gly

<210> 4778

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4778

Lys Gly Leu Phe Leu His Ile Tyr Ile Ile Tyr Val Tyr Ile Tyr Asn
 1 5 10 15

Ile Tyr Met Xaa Ile Tyr Ile Ile Tyr Ile Tyr Tyr Ile Tyr Asn Ile
 20 25 30

Tyr Ile Lys Tyr Ile Tyr Ile Cys Ser Pro Leu Ser Ala Ser Leu Ser
 35 40 45

Gln Gly Xaa Ser Val Gly Xaa Cys Leu Gly Pro Ala Ser Leu Leu Thr
 50 55 60

Ser Ser Ser Pro Leu Gly Thr Leu Ser Pro Tyr Ile Leu Ile Leu Asp
 65 70 75 80

4345

His Val Xaa Asn Cys Phe Trp Val Asn Val Asp Ile Ile Val Ile Ile
 85 90 95

Ile Ile Asn

<210> 4779

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4779

Gly Phe Lys Ile Gly Arg Lys Cys Ser Ser Gly Lys Met Cys Ala Val
 1 5 10 15

Gln Lys Thr His Lys Phe Phe Arg Lys Gln Leu Gly Pro Val Xaa Val
 20 25 30

Asp Gln Ile Glu Ser Pro Arg Ile Leu Gly Ser Ser Xaa Leu Met Asn
 35 40 45

Gly Phe Trp Leu Ile Leu Pro Val Leu Gln Phe Leu Leu Leu Cys Glu
 50 55 60

Met Gly Asn Thr Leu Ser Ala Ser Leu Arg Cys His Gly Asn Lys Gln
 65 70 75 80

Asn

<210> 4780

<211> 95

<212> PRT

<213> Homo sapiens

<400> 4780

4346

Ser Thr Leu Arg Pro Ala Ala Gly Lys Glu Trp Glu Gln Trp Leu Ser
 1 5 10 15
 Ala Ile Arg Ser Gly Ser Met Gly Gln Trp Leu Asp Phe Cys Pro Arg
 20 25 30
 Pro Glu Glu Cys Ala Val Leu Ala Ser Val Ser Pro Pro Val Ala Leu
 35 40 45
 Val Gln Glu Pro Thr Val Gly Cys Ser Leu Pro Gly Pro Leu Leu Leu
 50 55 60
 Trp Ile Leu Pro Thr Pro Ser Cys Ser Trp Gly Arg Pro Phe Ser Gln
 65 70 75 80
 Arg Ser Leu Asn Lys Pro Lys Asn Pro Gln Lys Lys Lys Lys Lys
 85 90 95

<210> 4781

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4781

Phe Ile Cys Thr Thr Phe Phe Arg Val Ala Ala Arg Thr Asn Leu Cys
 1 5 10 15
 Ala Leu Lys Cys Tyr Leu Leu Leu Ser Val Pro Lys Tyr Arg Glu Ile
 20 25 30
 Met Leu Gln Ile Ser Leu Leu Leu Asn Ile Met Leu Pro Asp Ala Phe
 35 40 45
 Ser Arg His
 50

<210> 4782

<211> 455

<212> PRT

<213> Homo sapiens

<400> 4782

Ser Asp Leu Leu Phe Leu Asn Tyr Arg Gln Leu Phe Gly Glu Glu Asp
 1 5 10 15
 Ala Asp Gln Glu Val Ser Pro Asp Arg Ala Asp Pro Glu Ala Ala Trp
 20 25 30

4347

Glu Pro Thr Glu Ala Glu Ala Arg Ala Arg Ala Ser Asn Glu Asp Gly
 35 40 45
 Asp Ile Lys Arg Ile Ser Thr Lys Glu Trp Ala Lys Ser Thr Gly Tyr
 50 55 60
 Asp Pro Val Lys Leu Phe Thr Lys Leu Phe Lys Asp Asp Ile Arg Tyr
 65 70 75 80
 Leu Leu Thr Met Asp Lys Leu Trp Arg Lys Arg Lys Pro Pro Val Pro
 85 90 95
 Leu Asp Trp Ala Glu Val Gln Ser Gln Gly Glu Glu Thr Asn Ala Ser
 100 105 110
 Asp Gln Gln Asn Glu Pro Gln Leu Gly Leu Lys Asp Gln Gln Val Leu
 115 120 125
 Asp Val Lys Ser Tyr Ala Arg Leu Phe Ser Lys Ser Ile Glu Thr Leu
 130 135 140
 Arg Val His Leu Ala Glu Lys Gly Asp Gly Ala Glu Leu Ile Trp Asp
 145 150 155 160
 Lys Asp Asp Pro Ser Ala Met Asp Phe Val Thr Ser Ala Ala Asn Leu
 165 170 175
 Arg Met His Ile Phe Ser Met Asn Met Lys Ser Arg Phe Asp Ile Lys
 180 185 190
 Ser Met Ala Gly Asn Ile Ile Pro Ala Ile Ala Thr Thr Asn Ala Val
 195 200 205
 Ile Ala Gly Leu Ile Val Leu Glu Gly Leu Lys Ile Leu Ser Gly Lys
 210 215 220
 Ile Asp Gln Cys Arg Thr Ile Phe Leu Asn Lys Gln Pro Asn Pro Arg
 225 230 235 240
 Lys Lys Leu Leu Val Pro Cys Ala Leu Asp Pro Pro Asn Pro Asn Cys
 245 250 255
 Tyr Val Cys Ala Ser Lys Pro Glu Val Thr Val Arg Leu Asn Val His
 260 265 270
 Lys Val Thr Val Leu Thr Leu Gln Asp Lys Ile Val Lys Glu Lys Phe
 275 280 285
 Ala Met Val Ala Pro Asp Val Gln Ile Glu Asp Gly Lys Gly Thr Ile
 290 295 300

4348

Leu Ile Ser Ser Glu Glu Gly Glu Thr Glu Ala Asn Asn His Lys Lys
 305 310 315 320
 Leu Ser Glu Phe Gly Ile Arg Asn Gly Ser Arg Leu Gln Ala Asp Asp
 325 330 335
 Phe Leu Gln Asp Tyr Thr Leu Leu Ile Asn Ile Leu His Ser Glu Asp
 340 345 350
 Leu Gly Lys Asp Val Glu Phe Glu Val Val Gly Asp Ala Pro Glu Lys
 355 360 365
 Val Gly Pro Lys Gln Ala Glu Asp Ala Ala Lys Ser Ile Thr Asn Gly
 370 375 380
 Ser Asp Asp Gly Ala Gln Pro Ser Thr Ser Thr Ala Gln Glu Gln Asp
 385 390 395 400
 Asp Val Leu Ile Val Asp Ser Asp Glu Glu Asp Ser Ser Asn Asn Ala
 405 410 415
 Asp Val Ser Glu Glu Glu Arg Ser Arg Lys Arg Lys Leu Asp Glu Lys
 420 425 430
 Glu Asn Leu Ser Ala Lys Arg Ser Arg Ile Glu Gln Lys Glu Glu Leu
 435 440 445
 Asp Asp Val Ile Ala Leu Asp
 450 455

<210> 4783

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4783

Lys His Arg Tyr Leu Val Leu Thr Gly Cys Ala Trp Leu Thr Gln Val
 1 5 10 15
 His Leu Pro His Gly Lys Ser Ser Ser Lys Pro Leu His Asp Leu Trp
 20 25 30
 Gly Ala Gly Ser Gln Phe Val Ala Cys Asp Leu Pro Gln Pro Gln Lys
 35 40 45
 Ile Arg Asp His Glu Ala Pro Pro Pro Pro Gly Ser Gly Asn Leu Ile
 50 55 60

4349

His Ile Ala Arg Ala Leu Pro Val Arg Leu Trp Met Leu Thr
 65 70 75

<210> 4784

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4784

Pro Ser Ser Pro Arg His Ile Ser Pro Arg Met Asn Ala Val Leu Ser
 1 5 10 15

Ala His Val Cys Val Glu Ala Ala Lys Val Gly Glu Leu Trp Ser Cys
 20 25 30

Pro Asp Pro Phe Gly Ile Ala Gly Pro Ser Ser His Trp Arg Ala Gly
 35 40 45

Val Gln Leu Thr Leu Gly Lys Glu Thr Ser Cys Leu Arg Val Ile Ser
 50 55 60

Cys Glu Cys Lys Ala Trp Gly Ser Gly Ser Leu Gly Gly Lys Glu Pro
 65 70 75 80

Val Arg Gly Leu Phe Pro Leu Ile Glu Leu Pro Arg Arg Ala Ser Ala
 85 90 95

Met Pro Glu Thr Gln Thr
 100

<210> 4785

<211> 87

<212> PRT

<213> Homo sapiens

<400> 4785

Glu Ile Pro Leu Leu Cys Phe Ala Ser Glu Ser Ser His Pro His Pro
 1 5 10 15

Gln Asn Cys Gly Ala Trp Trp Ala Leu Thr Ser Thr Pro Leu Leu Phe
 20 25 30

Ser Phe Ile Thr Phe Asp Leu Leu Lys Thr Ser Glu Arg Met Ser Val
 35 40 45

Lys Phe Phe Ser Pro Ser Ser Ser Leu Ser Ser Leu Lys Gly Arg Asp
 50 55 60

4350

Cys Ala Asn Thr Lys Gln Tyr Ser Phe Val Ser Ala Asn Ala Ser Val
 65 70 75 80

Asp Ile Pro Ile Gly Ile Lys
 85

<210> 4786

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4786

His Lys Glu Phe Xaa Arg Val Ser Gly Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 20 25 30

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 35 40 45

Val Val Leu Gln Arg Arg Asp Trp Xaa Asn Pro Gly Val Thr Gln Leu
 50 55 60

<210> 4787

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4787

Asp Thr Val Leu Lys Lys Ile Lys Asn Cys Lys Lys Met Lys Lys Lys
 1 5 10 15

4351

Val Leu Ser Ile Ile Cys Ile Ile Gly Ile His Met Ser Leu His Lys
 20 25 30

Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
 35 40 45

Val Val Cys Phe Ser Phe Ser Tyr
 50 55

<210> 4788

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4788

Thr Cys His Cys Leu Pro Pro Pro Pro Ala Arg Ala Met Thr Xaa Xaa
 1 5 10 15

Val Pro Arg Leu Ser Val Pro Ala Ala Leu Ala Leu Gly Ser Ala Ala
 20 25 30

Leu Gly Ala Ala Phe Ala Thr Gly Leu Phe Leu Gly Arg Arg Cys Pro
 35 40 45

Pro Trp Arg Gly Arg Arg Glu Gln Cys Leu Leu Pro Pro Glu Asp Xaa
 50 55 60

Arg Leu Trp Gln Tyr Leu Leu Ser Arg Ser Met Arg Glu His Pro Ala
 65 70 75 80

Leu Arg Ser Leu Arg Leu Leu Thr Leu Glu Gln Pro Gln Gly Asp Ser
 85 90 95

Met Met Thr Cys Glu Gln Ala Gln Leu Leu Ala Asn Leu Ala Arg Leu

4352

[illegible]

<210> 4789

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4789

Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
1 5 10 15

4353

Gly Ser Thr His Ala Ser Gly Ser Arg Phe Gln Ala Ser Ser Gln Leu
 20 25 30
 Arg Ala Gly Ser Trp Arg Pro Arg Pro Leu Pro Pro Val Val Pro Ala
 35 40 45
 Val Pro Asp Gly Ser Ala Met Ala Gln Pro Pro Pro Asp Val Glu Gly
 50 55 60
 Asp Asp Cys Leu Pro Ala Tyr Arg His Leu Phe Cys Pro Asp Leu Leu
 65 70 75 80
 Arg Asp Lys Val Ala Phe Ile Thr Gly Gly Gly Ser Gly Ile Gly Phe
 85 90 95
 Arg Ile Ala Glu Ile Phe Met Arg His Gly Cys His Thr Val Ile Ala
 100 105 110
 Ser Arg Ser Leu Pro Arg Val Leu Thr Ala Ala Arg Lys Leu Ala Gly
 115 120 125
 Ala Thr Gly Arg Arg Cys Leu Pro Leu Ser Met Asp Val Arg Xaa Pro
 130 135 140
 Pro Ala Val Met Ala Ala Val Asp Gln Ala Leu Lys Glu Phe Gly Arg
 145 150 155 160
 Ile Asp Ile Leu Ile Asn Cys Ala Ala Gly Asn Phe Leu Cys Pro Ala
 165 170 175

Gly

<210> 4790

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4790

Xaa His Leu His Pro Leu Pro Phe Gln Ser Phe Ala Ser Pro Pro His
 1 5 10 15
 Leu Ala Ile Lys Leu His Glu Asp Phe Ser Ser Ser Gly Ser Ala Trp
 20 25 30

4354

Asn Leu Ser Tyr Ile Leu Pro Phe Pro Thr Cys Ser Leu Glu Cys Pro
 35 40 45

Phe His Lys Tyr Ala Pro Thr Ala Gly Ser Ile Phe Phe Ser Phe Arg
 50 55 60

His Leu
 65

<210> 4791

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4791

Ala Ile Ser Xaa Val Arg Thr Ser Asn Ser Pro Ile Leu Ser Tyr Val
 1 5 10 15

Xaa Ser Asn Lys Leu His His Leu Leu Thr Gly Phe Phe Ile Ser Val
 20 25 30

Ile Ile Val Phe Ile Ser Arg Tyr Ser Ile Cys Leu Lys Asn Ile Cys
 35 40 45

Met Ile Leu His Gly Phe Asn Ser Pro Asp Glu Tyr Xaa Ala Phe Asn
 50 55 60

His Pro Ser Thr
 65

<210> 4792

4355

<211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4792
 Thr Xaa Phe Phe Leu Met Lys Cys Ile Val Phe Pro Leu Ala Leu Lys
 1 5 10 15
 Xaa His Ile Trp Cys Gln Ala Val Leu Leu Xaa Leu Thr Gly Glu Trp
 20 25 30
 Gln Leu Cys Leu Leu Ser Ala Ser Pro Ala Val Pro Ala Val Ser Gly
 35 40 45
 Thr Cys Ile Met Thr Arg Leu His Phe Pro Pro Ile Xaa Xaa Gln Arg
 50 55 60
 Phe Trp Glu Glu Glu Cys Asp Cys Met Ala Arg Ser Leu Gln Pro Gln
 65 70 75 80
 Ser Ala Ala Cys

<210> 4793

4356

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4793

Gly	Ser	Val	Leu	His	His	Pro	His	Ala	Thr	Pro	Thr	Thr	His	Arg	Cys
1				5					10					15	

Thr	Ala	Thr	Val	Thr	Gly	Ala	Ser	Cys	Leu	Arg	Met	Gly	Leu	Arg	Val
			20					25					30		

Ile	Asn	Phe	Phe	Lys	Gly	Tyr	Ile	Xaa	Ile	Ala	Tyr	Xaa	Ile	Gln	Ile
		35					40					45			

Lys	Gly	Pro	Glu	Phe	Xaa	Ala	Asn	Cys	Thr	Tyr	Leu	Phe	Ala	Asn	Leu
	50					55					60				

Xaa	His	His	Arg	Lys	Pro	Lys	Asp	Ser	Xaa	Cys	Gly	Gln	Ser	Phe	Thr
65					70					75					80

Leu	Gln	Ser	Leu	Lys	Tyr	Phe	Phe
				85			

<210> 4794

4357

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4794

Arg Ser Ser Leu Phe His Gln Ala Gly Val Gln Trp His Asp Leu Ser
 1 5 10 15

Ser Leu Gln Ser Pro Pro Pro Gln Phe Lys
 20 25

<210> 4795

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (310)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4795

Ile Asp Arg Glu Leu Ser Pro Glu Gly Pro Gly Lys Glu Lys Glu Leu
 1 5 10 15

Pro Gly Gln Thr Leu His Trp Gly Pro Glu Ala Thr Glu Ala Ala Gly
 20 25 30

Arg Gly Leu Gln Pro Leu Lys Leu Asp Tyr Arg Ala Leu Ala Ala Val
 35 40 45

Pro Ser Ala Gly Ser Val Gln Arg Val Pro Ser Gly Ala Ala Gly Gly
 50 55 60

Lys Met Ala Glu Ser Pro Cys Ser Pro Ser Gly Gln Gln Pro Pro Ser
 65 70 75 80

Pro Pro Ser Pro Asp Glu Leu Pro Ala Asn Val Lys Gln Ala Tyr Arg
 85 90 95

Ala Phe Ala Ala Val Pro Thr Ser His Pro Pro Glu Asp Ala Pro Ala
 100 105 110

Gln Pro Pro Thr Pro Gly Pro Ala Ala Ser Pro Glu Gln Leu Ser Phe
 115 120 125

Arg Glu Arg Gln Lys Tyr Phe Glu Leu Glu Val Arg Val Pro Gln Ala
 130 135 140

4358

Glu Gly Pro Pro Lys Arg Val Ser Leu Val Gly Ala Asp Asp Leu Arg
 145 150 155 160
 Lys Met Gln Glu Glu Glu Ala Arg Lys Leu Gln Gln Lys Arg Ala Gln
 165 170 175
 Met Leu Arg Glu Ala Ala Glu Ala Gly Ala Glu Ala Arg Leu Ala Leu
 180 185 190
 Asp Gly Glu Thr Leu Gly Glu Glu Glu Gln Glu Asp Glu Gln Pro Pro
 195 200 205
 Trp Ala Ser Pro Ser Pro Thr Ser Arg Gln Ser Pro Ala Ser Pro Pro
 210 215 220
 Pro Leu Gly Gly Gly Ala Pro Val Arg Thr Ala Lys Ala Glu Arg Arg
 225 230 235 240
 His Gln Glu Arg Leu Arg Val Gln Ser Pro Glu Pro Pro Ala Pro Glu
 245 250 255
 Arg Ala Leu Ser Pro Ala Glu Leu Arg Ala Leu Glu Ala Glu Lys Arg
 260 265 270
 Ala Leu Trp Arg Ala Ala Arg Met Lys Ser Leu Glu Gln Asp Ala Leu
 275 280 285
 Arg Ala Gln Met Val Leu Ser Arg Ser Gln Glu Gly Arg Gly Thr Arg
 290 295 300
 Gly Pro Leu Glu Arg Xaa Ala Glu Ala Pro Ser Pro Ala Pro Thr Pro
 305 310 315 320
 Ser Pro Thr Pro Val Glu Asp Leu Gly Pro Gln Thr Ser Thr Ser Pro
 325 330 335
 Gly Arg Leu Ser Pro Asp Phe Ala Glu Glu Leu Arg Ser Leu Glu Pro
 340 345 350
 Ser Pro Ser Pro Gly Pro Gln Glu Glu Asp Gly Glu Val Ala Leu Val
 355 360 365
 Leu Leu Gly Arg Pro Ser Pro Gly Ala Val Gly Pro Glu Asp Val Ala
 370 375 380
 Leu Cys Ser Ser Arg Arg Pro Val Arg Pro Gly Arg Arg Gly Leu Gly
 385 390 395 400
 Pro Val Pro Ser

4359

<210> 4796

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4796

Gly Xaa Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Val Cys Leu Phe Arg
 20 25 30

Leu Lys Phe Phe Leu Lys Cys Leu Val Ile Pro Gly Phe Leu Leu Ile
 35 40 45

Ile Lys Glu Lys Asn Ala Asp Ser Leu Asp Pro Gly Arg Ala Ser Leu
 50 55 60

Pro Asp Cys Arg Leu Ala Ser Gly Ile His Gly Phe Pro Lys Cys
 65 70 75

<210> 4797

<211> 97

<212> PRT

<213> Homo sapiens

<400> 4797

Pro Pro Pro Ser Leu Ser Phe Ser Ser Ser Val Phe Leu Leu Ser Ser
 1 5 10 15

Phe Phe Pro Ser Pro Ser Ser Ile Ala Thr Phe Ser Pro Thr Arg Thr
 20 25 30

Gln Ala Tyr Lys Arg Arg Phe Leu Met Leu Leu Cys Leu Leu Thr Pro
 35 40 45

Leu Phe Ser Cys Phe Gln Gln Val Phe Leu Pro Pro Val Pro Gln Leu
 50 55 60

Leu Leu Leu Leu Arg Arg Ser Asp Leu Pro Leu Met Val Ile Pro Ala
 65 70 75 80

4360

Pro Leu Arg Pro Thr Ser Ala Lys Lys Glu Lys Val Lys Gln Gln Gln
 85 90 95

Gln

<210> 4798

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4798

Ala Ser Tyr Tyr Met Xaa Leu His Phe Pro Gln Trp Phe Val His Ser
 1 5 10 15

Ser Ala Leu Gly Leu Val Leu Ala Pro Pro Phe Ser Ser Pro Gly Thr
 20 25 30

Asp Pro Thr Phe Pro Cys Ile Tyr Cys Arg Leu Leu Asn Met Ile Met
 35 40 45

Thr Arg Leu Ala Phe Ser Phe Ile Thr Cys Leu Cys Pro Asn Leu Lys
 50 55 60

Glu Val Cys Leu Ile Leu Pro Glu Lys Asn Cys Asn Ser Arg His Ala
 65 70 75 80

Gly Phe Val Gly Pro Ala Lys Leu Arg Gln
 85 90

<210> 4799

<211> 52

<212> PRT

<213> Homo sapiens

<400> 4799

His Cys Tyr His Ser His Ala Lys His Trp Leu His Thr Cys Ser Leu
 1 5 10 15

Phe Val Ile Asn Ile Lys Arg Leu Asp Leu Lys Pro Ser Ile Asn Glu
 20 25 30

4361

Arg Pro Phe Ile Trp His Ser Trp Asn Lys Thr Leu His Arg Tyr Gln
 35 40 45

Pro Leu His Ser
 50

<210> 4800

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4800

Phe Val Gly Leu Thr Leu Pro Phe Ser Phe Ser Leu Glu Cys Leu Leu
 1 5 10 15

Gly Tyr Ala Leu Val Gly Leu Met Ser Phe Leu Gly Leu Gly Gly Val
 20 25 30

Cys Val Trp Leu Val Trp Gly Thr Phe Arg Gly Ser Ser Cys Thr Phe
 35 40 45

Pro Leu Leu Ser Val Cys Ser Ser Leu His Leu Leu Phe Val Cys Val
 50 55 60

His Phe Phe Ser Glu Gln Ser Phe Ser Leu Ala Thr Leu Ser Ser Leu
 65 70 75 80

Thr Val Phe Leu Phe Ser Ser Ser Leu Arg
 85 90

<210> 4801

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4801

Leu Lys Leu Lys Arg Arg Gln Gly Ser Ile Gln Ala Glu Pro Val Leu
 1 5 10 15

Val Gln Thr Lys Asn Leu Thr Gly Thr Met Glu Gly Ser Ser Ser Pro
 20 25 30

Leu Leu Thr Phe Tyr Val Met Glu Arg Leu Glu Leu Ile Lys Val Leu
 35 40 45

Pro Phe Phe Tyr Ser Pro Glu Tyr Gln Arg Gln Leu Lys Ser Ala Thr
 50 55 60

4362

Asn Asp Leu Pro Val Ser Cys Phe Ile Phe Val Ile Asp Phe
 65 70 75

<210> 4802

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4802

Val Pro Ala Thr Thr Pro Gly Gln Tyr Leu Tyr Phe Leu Trp Arg Arg
 1 5 10 15

Gly Phe Ala Met Leu Ala Arg Leu Val Ser Asn Tyr Trp Ala Gln Val
 20 25 30

Ile His Pro Pro Gln Pro Pro Lys Val Leu Arg Leu Gln Ala
 35 40 45

<210> 4803

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4803

Trp Val Pro Leu Leu Phe Ala Phe Ser Phe Ser Glu Asn Val Cys Val
 1 5 10 15

Leu Pro Leu Phe Trp Leu His Leu Gln Asn Ile Ser Phe Val Pro Met
 20 25 30

Tyr Met Cys Lys His Ala Ile Ala Cys Val Val Gly Val Leu Tyr Phe
 35 40 45

Val Trp Glu Lys Asn Tyr Gln Asn Glu Glu Glu Asn Phe Pro Tyr Leu
 50 55 60

Cys Thr Arg Phe Leu Cys Phe Phe Phe Glu Phe Ser Gly Val Asp Ile
 65 70 75 80

Asn Leu Ile Pro Ser Trp
 85

<210> 4804

<211> 71

4363

<212> PRT

<213> Homo sapiens

<400> 4804

Leu Trp Gln Asn Leu Phe Trp His Asn His Ile Cys Ser Leu Tyr Lys

1

5

10

15

Ile Ser Phe Leu Cys Phe Arg Lys Asn Val Ser Tyr Tyr Ser Glu Ser

20

25

30

Cys Asp Ser Asp Ser Ser Trp Phe Gly Ala Gln Lys Phe Leu Asn Met

35

40

45

Ser Leu Leu Leu Val Lys His Arg Ile Cys Phe Leu Gln Lys Phe Ile

50

55

60

Phe Asn Glu Glu Tyr Leu Ser

65

70

<210> 4805

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4805

Ala Leu His Thr Cys Trp Tyr Leu Leu Ala Asn Cys Ala Ala Leu Thr

1

5

10

15

Cys His Leu Ser Leu Cys Pro Asn Thr Thr Thr Val Ala Thr Val Pro

20

25

30

Thr Thr Ile Pro Thr Val Thr Leu Val Ile Ala Tyr Ser Ala Thr Asn

35

40

45

4364

Ser Pro Cys Gly Ser Thr Ser Met Leu Gly Leu Leu Ala Leu Pro Ser
 50 55 60

Met Ser Thr Tyr Met Ala Ala Ser Ala Tyr Thr Thr Xaa Leu Leu Thr
 65 70 75 80

Phe Thr Leu Val Gly Thr Leu Asn Leu Ala Ile Val Arg Leu Leu Ser
 85 90 95

Ser Asn Arg Leu Thr Cys Asn Asn Xaa Xaa
 100 105

<210> 4806

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4806

Trp Asp Cys Arg His Pro Pro Ser Cys Pro Ala Lys Phe Cys Thr Phe
 1 5 10 15

Val Glu Met Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu
 20 25 30

Thr Ser Gly Asp Leu Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr
 35 40 45

Gly Val Ser His His Ala Trp Thr Xaa Cys Cys Cys Cys Phe
 50 55 60

<210> 4807

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4365

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4807

Met	Lys	Glu	Asp	Leu	Phe	Ser	Leu	Arg	Ser	Val	Cys	Gly	Val	Ser	Cys
1				5				10					15		
Pro	Gly	Leu	Leu	Ser	Glu	Val	Trp	Pro	Gln	Gly	Leu	Arg	Glu	Val	Ala
		20						25					30		
Arg	Thr	Pro	Gln	Gly	Gly	Pro	His	His	Arg	Gly	Cys	Cys	Pro	Thr	Gly
		35					40					45			
Ser	Ser	Pro	Xaa	Ser	Gly	Thr	Leu	Pro	Xaa	Ser	Leu	Trp	Glu	Gly	Glu
	50					55					60				
Met	Ala	Thr	Gly	Leu	Glu	Asn	Arg	His	Pro	Val					
65						70				75					

<210> 4808

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4808

Gly	Leu	Val	Gly	Pro	Leu	Leu	Val	Cys	Arg	Ala	Gly	Ala	Leu	Gly	Ala
1				5				10					15		
Asp	Gly	Lys	Gln	Lys	Gly	Val	Asp	Lys	Glu	Phe	Phe	Leu	Leu	Phe	Thr
		20						25					30		
Val	Leu	Asp	Glu	Asn	Lys	Ser	Trp	Tyr	Ser	Asn	Ala	Asn	Gln	Ala	Ala
		35					40					45			

4366

Ala Met Leu Asp Phe Arg Leu Leu Ser Glu Asp Ile Glu Gly Phe Gln
 50 55 60

Asp Ser Asn Arg Met His Ala Ile Asn Gly Phe Leu Phe Ser Asn Leu
 65 70 75 80

Pro Arg Leu Asp Met Cys Lys Gly Asp Thr Val Ala Trp His Leu Leu
 85 90 95

Gly Leu Gly Thr Glu Thr Asp Val His Gly Val Met Phe Gln Gly Asn
 100 105 110

Thr Val Gln Leu Gln Gly Met Arg Lys Gly Ala Ala Met Leu Phe Pro
 115 120 125

His Thr Phe Val Met Ala Ile Met Gln Pro Asp Asn Leu Gly Thr Phe
 130 135 140

Glu Ile Tyr Cys Gln Ala Gly Lys Pro Ser Arg Thr Xaa Met Lys Ala
 145 150 155 160

Ile Tyr Asn Gly Ser Asn Xaa Leu Gly Thr Lys Pro Pro Xaa Ala Thr
 165 170 175

Leu Pro Thr Cys Lys Asn Leu Leu Phe His Gly
 180 185

<210> 4809

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4809

Ala Ile Pro Leu Thr Asn Asp Gly Val Pro Ser Glu Ser Ser Ala Gly
 1 5 10 15

Arg Leu Leu Cys Val Gly Arg Leu Gly Leu Gly Arg Gly Leu Ser Pro
 20 25 30

Asn Leu Gly Pro Ala Glu Gln Glu Gln Asn His Tyr Leu Ala Gln Leu
 35 40 45

Phe Gly Leu Tyr Gly Glu Asn Gly Thr Leu Thr Ala Gly Gly Leu Ala
 50 55 60

4367

Arg Leu Leu His Ser Leu Gly Leu Gly Arg Val Gln Gly Leu Arg Leu
 65 70 75 80

Gly Gln His Gly Pro Leu Thr Gly Arg Ala Ala Ser Pro Ala Ala Asp
 85 90 95

Asn Ser Thr His Arg Pro Gln Asn Pro Glu Leu Ser Val Asp Val Trp
 100 105 110

Ala Gly Met Pro Leu Gly Pro Ser Gly Trp Gly Asp Leu Glu Xaa
 115 120 125

<210> 4810

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4810

Ala Ser Met Asp Pro Asp Ser Asp Gln Pro Leu Asn Ser Leu Asp Val
 1 5 10 15

Lys Pro Leu Arg Lys Pro Arg Ile Pro Ile Ile Ile Ala Leu Leu Ser
 20 25 30

Leu Ala Ser Ile Ile Ile Val Val Val Leu Ile Lys Val Ile Leu Asp
 35 40 45

Lys Tyr Tyr Phe Leu Cys Gly Gln Pro Leu His Phe Ile Pro Arg Lys
 50 55 60

Gln Leu Cys Asp Gly Glu Leu Asp Cys Pro Leu Gly Glu Asp Glu Glu
 65 70 75 80

4368

His Cys Val Lys Ser Phe Pro Glu Gly Pro Xaa Val Ala Val Arg Leu
 85 90 95

Ser Lys Asp Arg Ser Thr Leu Gln Val Leu Asp Ser Ala Thr Gly Asn
 100 105 110

Trp Phe Ser Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala Glu Thr
 115 120 125

Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg Ala Val
 130 135 140

Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr Glu Asn
 145 150 155 160

Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu Ser Gly
 165 170 175

Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Lys Ser Leu Lys Thr
 180 185 190

Pro Arg Val Val Xaa Gly Glu Glu Ala Ser Val Asp Ser Trp Pro Trp
 195 200 205

Gln Val Ser Ile Gln Tyr Xaa Lys
 210 215

<210> 4811
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 4811
 Ser Ser Asn Thr Phe Arg Leu Gln Val Gln Thr Gln Glu Ser Lys Ala
 1 5 10 15

Gln Lys Glu Leu Glu Arg Gln Leu Ile Met Gln Ser Glu Met Arg Glu
 20 25 * 30

Arg Gln Met Ala Met Gln Ile Ala Trp Ser Arg Glu Phe Leu Lys Tyr
 35 40 45

Phe Gly Thr Phe Phe Gly Leu Ala Ala Ile Ser Leu Thr Ala Gly Ala
 50 55 60

Ile Lys Lys Lys Lys Pro Ala Phe Leu Val Pro Ile Val Pro Leu Ser
 65 70 75 80

Phe Ile Leu Thr Tyr Gln Tyr Asp Leu Gly Tyr Gly Thr Leu Leu Glu

4369

	85		90		95
Arg Met Lys Gly Glu Ala Glu Asp Ile Leu Glu Thr Glu Lys Ser Lys					
	100		105		110
Leu Gln Leu Pro Arg Gly Met Ile Thr Phe Glu Ser Ile Glu Lys Ala					
	115		120		125
Arg Lys Glu Gln Ser Arg Phe Phe Ile Asp Lys					
	130		135		

<210> 4812

<211> 121

<212> PRT

<213> Homo sapiens

<400> 4812

Gly Arg Phe Ala Pro Ser Pro Pro Pro Ala Leu Pro Gly Asn Pro Leu					
1	5		10		15
Lys Met Arg Pro Pro Val Leu Arg Glu Pro Gly Ala Pro Ala Ser Ala					
	20		25		30
Pro Ala Gln Pro Leu Pro Gly Ala Asp Pro Gly Trp Asp Phe Gly Gly					
	35		40		45
Pro Ser Leu Ser Pro Leu Arg Glu Asn Arg Pro Gly Arg Cys Gly Glu					
	50		55		60
Gly Pro Arg Ala Ile Leu Ala Gly Gly Ala Gly Arg Arg Thr Arg Ala					
	65		70		75
Arg Arg Pro Ser Pro Ala Arg Thr Ser Ser Arg Gln Ser Ser Gly Lys					
	85		90		95
Gly Ser Leu Phe Phe Ser Leu Gly Lys Ile Lys Ser Pro Arg Glu Asn					
	100		105		110
Lys Ala Gly Lys Gly Ala Pro Phe Leu					
	115		120		

<210> 4813

<211> 364

<212> PRT

<213> Homo sapiens

<220>

4370

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4813

Asp	Gly	Gly	Xaa	Xaa	Thr	Gln	Trp	Ala	Xaa	Glu	Phe	Pro	Phe	Asp	Val
1				5					10					15	

Asp	Ala	Leu	Phe	Pro	Glu	Arg	Ile	Thr	Val	Leu	Asp	Gln	His	Leu	Arg
		20						25					30		

Pro	Pro	Ala	Arg	Arg	Pro	Gly	Thr	Thr	Thr	Pro	Ala	Arg	Val	Asp	Leu
		35					40					45			

Gln	Gln	Gln	Ile	Met	Thr	Ile	Ile	Asp	Glu	Leu	Gly	Lys	Ala	Ser	Ala
	50					55					60				

Lys	Ala	Gln	Asn	Leu	Ser	Ala	Pro	Ile	Thr	Ser	Ala	Ser	Arg	Met	Gln
65					70					75				80	

Ser	Asn	Arg	His	Val	Val	Tyr	Ile	Leu	Lys	Asp	Ser	Ser	Ala	Arg	Pro
			85						90					95	

Ala	Gly	Lys	Gly	Ala	Ile	Ile	Gly	Phe	Ile	Lys	Val	Gly	Tyr	Lys	Lys
			100					105					110		

Leu	Phe	Val	Leu	Asp	Asp	Arg	Glu	Ala	His	Asn	Glu	Val	Glu	Pro	Leu
		115					120					125			

Cys	Ile	Leu	Asp	Phe	Tyr	Ile	His	Glu	Ser	Val	Gln	Arg	His	Gly	His
	130					135					140				

Gly	Arg	Glu	Leu	Phe	Gln	Tyr	Met	Leu	Gln	Lys	Glu	Arg	Val	Glu	Pro
145					150					155				160	

His	Gln	Leu	Ala	Ile	Asp	Arg	Pro	Ser	Gln	Lys	Leu	Leu	Lys	Phe	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4371

	165		170		175
Asn Lys His Tyr Asn Leu Glu Thr Thr Val Pro Gln Val Asn Asn Phe					
180		185		190	
Val Ile Phe Glu Gly Phe Phe Ala His Gln His Arg Pro Pro Ala Pro					
195		200		205	
Ser Leu Arg Ala Thr Arg His Ser Arg Ala Ala Ala Val Asp Pro Thr					
210		215		220	
Pro Ala Ala Pro Ala Arg Lys Leu Pro Pro Lys Arg Ala Glu Gly Asp					
225		230		235	240
Ile Lys Pro Tyr Ser Ser Ser Asp Arg Xaa Phe Leu Lys Val Ala Val					
	245		250		255
Glu Pro Pro Trp Pro Leu Asn Arg Ala Pro Arg Arg Ala Thr Pro Pro					
	260		265		270
Ala His Pro Pro Pro Arg Ser Ser Ser Leu Gly Asn Ser Pro Glu Arg					
	275		280		285
Gly Pro Leu Arg Pro Phe Val Pro Glu Gln Glu Leu Leu Arg Ser Leu					
	290		295		300
Arg Leu Cys Pro Pro His Pro Thr Ala Arg Leu Leu Leu Ala Ala Asp					
305		310		315	320
Pro Gly Gly Ser Pro Ala Gln Arg Arg Arg Thr Ser Ser Leu Pro Arg					
	325		330		335
Ser Glu Glu Ser Arg Tyr Leu Thr Ala Tyr Pro Ser Pro Cys Pro Gly					
	340		345		350
Gly Asp Leu Gly Val Gly Gln Gly Asn Pro Phe Ser					
	355		360		

<210> 4814

<211> 145

<212> PRT

<213> Homo sapiens

<400> 4814

Asn Thr Ala Lys Phe Thr Asn Cys Thr Cys Cys Ile Val Lys Pro His			
1	5	10	15
Ala Val Ser Glu Gly Leu Leu Gly Lys Ile Leu Met Ala Ile Arg Asp			
20	25	30	

4372

Ala Gly Phe Glu Ile Ser Ala Met Gln Met Phe Asn Met Asp Arg Val
 35 40 45
 Asn Val Glu Glu Phe Tyr Glu Val Tyr Lys Gly Val Val Thr Glu Tyr
 50 55 60
 His Asp Met Val Thr Glu Met Tyr Ser Gly Pro Cys Val Ala Met Glu
 65 70 75 80
 Ile Gln Gln Asn Asn Ala Thr Lys Thr Phe Arg Glu Phe Cys Gly Pro
 85 90 95
 Ala Asp Pro Glu Ile Ala Arg His Leu Arg Pro Gly Thr Leu Arg Ala
 100 105 110
 Ile Phe Gly Lys Thr Lys Ile Gln Asn Ala Val His Cys Thr Asp Leu
 115 120 125
 Pro Glu Asp Gly Leu Leu Glu Val Gln Tyr Phe Phe Lys Ile Leu Asp
 130 135 140
 Asn
 145

<210> 4815

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4815

Gln Asn Val Ile Met Phe Val Gly Leu Gln Gly Ser Gly Xaa Thr Thr
 1 5 10 15
 Thr Cys Ser Lys Leu Ala Tyr Tyr Tyr Gln Arg Lys Gly Trp Lys Thr
 20 25 30
 Cys Leu Ile Cys Ala Asp Thr Phe Arg Ala Gly Ala Phe Asp Gln Leu
 35 40 45
 Lys Gln Asn Ala Thr Lys Ala Arg Ile Pro Phe Tyr Gly Ser Tyr Thr
 50 55 60
 Glu Met Asp Pro Val Ile Ile Ala Ser Glu Gly Val Glu Lys Phe Lys

4373

65		70		75		80
Asn Glu Asn Phe Glu Ile Ile Ile Val Asp Thr Ser Gly Arg His Lys						
	85		90		95	
Gln Glu Asp Ser Leu Phe Glu Glu Met Leu Gln Val Ala Asn Ala Ile						
	100		105		110	
Gln Pro Asp Asn Ile Val Tyr Val Met Asp Ala Ser Ile Gly Gln Ala						
	115		120		125	
Cys Glu Ala Gln Ala Lys Ala Phe Lys Asp Lys Val Asp Val Ala Ser						
	130		135		140	
Val Ile Val Thr Lys Leu Asp Gly His Ala Lys Gly Gly Gly Ala Leu						
	145		150		155	160
Ser Ala Val Ala Ala Thr Lys Ser Pro Ile Ile Phe Ile Gly Thr Gly						
	165		170		175	
Glu His Ile Asp Asp Phe Glu Pro Phe Lys Thr Gln Pro Phe Ile Ser						
	180		185		190	
Lys Leu Leu Gly Met Gly Asp Ile Glu Gly Leu Ile Asp Lys Val Asn						
	195		200		205	
Glu Leu Lys Leu Asp Asp Asn Glu Ala Leu Ile Glu Lys Leu Lys His						
	210		215		220	
Gly Gln Phe Thr Leu Arg Asp Met Tyr Glu Gln Phe Gln Asn Ile Met						
	225		230		235	240
Lys Met Gly Pro Phe Ser Gln Ile Leu Gly Met Ile Pro Gly Phe Gly						
	245		250		255	
Thr Asp Phe Met Ser Lys Gly Asn Glu Gln Glu Ser Met Ala Arg Leu						
	260		265		270	
Lys Lys Leu Met Thr Ile Met Asp Ser Met Asn Asp Gln Glu Leu Asp						
	275		280		285	
Ser Thr Asp Gly Ala Lys Val Phe Ser Lys Gln Pro Gly Arg Ile Gln						
	290		295		300	
Arg Val Ala Arg Gly Ser Gly Val Ser Thr Arg Asp Val Gln Glu Leu						
	305		310		315	320
Leu Thr Gln Tyr Thr Lys Phe Ala Gln Met Val Lys Lys Met Gly Gly						
	325		330		335	
Ile Lys Gly Leu Phe Lys Gly Gly Asp Met Ser Lys Asn Val Ser Gln						

4374

340 345 350
 Ser Gln Met Ala Lys Leu Asn Gln Gln Met Ala Lys Met Met Asp Pro
 355 360 365
 Arg Val Leu His His Met Gly Gly Met Ala Gly Leu Gln Ser Met Met
 370 375 380
 Arg Gln Phe Gln Gln Gly Ala Ala Gly Asn Met Lys Gly Met Met Gly
 385 390 395 400
 Phe Asn Asn Met

<210> 4816

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4816

Ser Leu Ile Ser Leu Tyr Phe Ser Phe Phe Val Cys Glu Tyr Tyr Pro
 1 5 10 15
 Tyr Thr Thr Thr Pro Lys Thr Ser Glu Leu Phe Ala Leu Phe Phe His
 20 25 30
 Thr Thr Trp Gly Arg Glu Pro Trp Glu Tyr Ala His Gly Ile Ile Ile
 35 40 45
 His Ser Val Val Trp Lys Lys Lys Met Leu Thr Ser Ala Leu Glu Gly
 50 55 60
 Ser Tyr
 65

<210> 4817

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4817

His Ala Ser Ala Asp Ala Trp Ala Asp Ala Trp Glu Lys Ser Cys Glu
 1 5 10 15
 Glu Ile Asp Leu Asp Lys His Lys Ser Ile Gln Arg Lys Lys Thr Glu
 20 25 30

4375

Val Glu Ile Glu Thr Val His Val Ser Thr Glu Lys Leu Lys Asn Arg
 35 40 45

Lys Glu Lys Lys Ser Arg Asp Val Val Ser Lys Lys Glu Glu Arg Lys
 50 55 60

Arg Thr Lys Lys Lys Lys Glu Gln Gly Gln Glu Arg Thr Glu Glu Glu
 65 70 75 80

Met Leu Trp Asp Gln Ser Ile Leu Gly Phe
 85 90

<210> 4818

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4818

Gly Gly Phe Leu His Pro Gln Pro Glu Arg Arg Pro Xaa Gly Pro Ala
 1 5 10 15

Pro Arg Lys Pro Pro Val Ala Arg Pro Arg Ser Gly Leu Gly Ser Pro
 20 25 30

Gly Lys Arg Phe Gly Arg Ala His Gly Asp Cys Val Ser Gly Ala Gln
 35 40 45

Leu Cys Gly Cys Pro Ser Met Asp Asp Tyr Met Val Leu Arg Met Ile
 50 55 60

4376

Gly Glu Gly Ser Phe Gly Arg Ala Leu Leu Val Gln His Glu Ser Ser
 65 70 75 80
 Asn Gln Met Phe Ala Met Lys Glu Ile Arg Leu Pro Lys Ser Phe Ser
 85 90 95
 Asn Thr Gln Asn Ser Arg Lys Glu Ala Val Leu Leu Ala Lys Met Lys
 100 105 110
 His Pro Asn Ile Xaa Ala Phe Lys Glu Ser Phe Glu Ala Xaa Gly His
 115 120 125
 Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Xaa Asp Leu Met Gln Lys
 130 135 140
 Ile Lys Gln Gln Lys Arg Lys Val Ile Ser
 145 150

<210> 4819

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4819

Arg Leu His Arg Tyr Pro Glu Ala Met Ala Ser Lys Gly Leu Gln Asp
 1 5 10 15
 Leu Lys Gln Gln Val Glu Gly Thr Ala Gln Glu Ala Ala Met Asp Gln
 20 25 30
 Leu Ala Lys Thr Thr Gln Glu Thr Ile Asp Lys Thr Ala Asn Gln Ala
 35 40 45
 Ser Asp Thr Phe Ser Gly Ile Gly Lys Lys Phe Gly Leu Leu Lys
 50 55 60

<210> 4820

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

4377

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4820

Val	Lys	Lys	Asp	Thr	Leu	Thr	Glu	Glu	Glu	Thr	Gln	Phe	Tyr	Ile	Ala
1				5					10					15	

Glu	Thr	Val	Leu	Ala	Ile	Asp	Ser	Ile	His	Gln	Leu	Gly	Phe	Ile	His
			20					25					30		

Arg	Asp	Ile	Lys	Pro	Asp	Asn	Leu	Leu	Leu	Asp	Ser	Lys	Gly	His	Val
		35					40					45			

Lys	Leu	Ser	Asp	Phe	Gly	Leu	Cys	Thr	Gly	Leu	Lys	Lys	Ala	His	Arg
	50					55					60				

Thr	Glu	Phe	Tyr	Arg	Asn	Leu	Asn	His	Ser	Leu	Pro	Ser	Asp	Phe	Thr
65					70					75					80

Phe	Gln	Asn	Met	Asn	Ser	Lys	Arg	Lys	Ala	Glu	Thr	Trp	Lys	Arg	Asn
				85					90					95	

Arg	Arg	Gln	Leu	Ala	Phe	Ser	Thr	Val	Gly	Thr	Pro	Asp	Tyr	Ile	Ala
			100					105					110		

Pro	Glu	Val	Phe	Met	Gln	Thr	Gly	Tyr	Asn	Lys	Leu	Cys	Asp	Trp	Trp
	115						120					125			

Ser	Leu	Gly	Val	Ile	Met	Tyr	Glu	Met	Leu	Ile	Gly	Tyr	Pro	Pro	Phe
	130					135					140				

Cys	Xaa	Glu	Thr	Pro	Gln	Glu	Thr	Tyr	Lys	Lys	Val	Met	Asn	Trp	Lys
145					150					155				160	

Glu	Thr	Leu	Thr	Phe	Pro	Pro	Glu	Val	Pro	Ile	Ser	Glu	Lys	Ala	Lys
				165					170					175	

Asp	Leu	Ile	Leu	Arg	Phe	Cys	Cys	Glu	Trp	Glu	His	Arg	Ile	Gly	Ala
		180						185					190		

Pro	Gly	Val	Glu	Glu	Ile	Lys	Ser	Asn	Ser	Phe	Phe	Glu	Gly	Val	Asp
		195						200				205			

Trp	Glu	His	Ile	Arg	Glu	Arg	Pro	Ala	Ala	Ile	Ser	Ile	Glu	Ile	Lys
	210					215					220				

Ser	Xaa	Asp	Asp	Thr	Ser	Asn	Phe	Asp	Glu	Phe	Pro	Glu	Ser	Asp	Ile
225					230					235					240

4378

Leu Lys Pro Thr Asp Ala Phe Leu Gly Asp Thr Pro Pro His Pro Lys
 245 250 255

Gly Ser Pro Ala Thr
 260

<210> 4821

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4821

Phe Arg Ala Leu His Arg Gly Ala Ala Leu Asp Leu Ser Pro Leu His
 1 5 10 15

Arg Ser Pro His Pro Ser Arg Gln Ala Ile Phe Cys Trp Met Ser Phe
 20 25 30

Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu Val Gln Gln
 35 40 45

Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu Val Leu Met
 50 55 60

Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser Leu Glu Ser
 65 70 75 80

Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile Leu Gln Asn
 85 90 95

Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly His Pro Gln
 100 105 110

Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu Leu Phe Pro
 115 120 125

Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg Val Leu Leu
 130 135 140

Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp Leu Ser Leu
 145 150 155 160

Leu Pro Pro Arg Ala Ala Leu Ser Thr Pro Ala Thr Thr Arg Thr Glu
 165 170 175

Thr Ser

4379

<210> 4822

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4822

Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro
1				5					10					15	

Pro	Ile	Phe	Pro	Val	Asp	Asn	Ala	Ile	Asp	Asn	Xaa	Lys	Glu	Ile	Gln
			20					25					30		

Val	Ala	Leu	Xaa	Ile	Leu	Met	Ala	Ala	Tyr	Ala	Met	Ala	Glu	Ala	Phe
		35					40				45				

Met	Ser	Thr	Gly	Val	Gly	Ala	Ser	Leu	Ile	Leu	Ile	Ala	Leu	Lys	Val
	50					55					60				

Gly	Ile	Thr	Ala	Lys	Thr	Val	Ala	Val	Ile	Gly	Ala	Ile	Val	Thr	Ser
65					70					75					80

Ile	Leu	Ser	Ile	Ala	Thr	Gly	Thr	Ser	Trp	Gly	Thr	Phe	Ala	Ala	Cys
			85						90					95	

Ala	Pro	Ile	Phe	Leu	Trp	Leu	Asn	His	Ile	Val	Gly	Gly	Asn	Ile	Leu
		100					105						110		

Leu	Thr	Thr	Ala	Ala	Ile	Ala	Gly	Gly	Ala	Cys	Phe	Gly	Asp	Asn	Ile
	115						120					125			

Gly	Leu	Ile	Ser	Asp	Thr	Thr	Ile	Val	Ser	Ser	Gly	Ile	Gln	Lys	Val
	130					135					140				

Glu	Val	Val	Arg	Arg	Ile	Arg	His	Gln	Gly	Val	Trp	Ser	Ala	Leu	Val
145					150					155					160

Leu	Leu	Ser	Gly	Ile	Ile	Val	Phe	Ala	Ile	Val	Gly	Phe	Thr	Trp	Ile
				165					170					175	

Tyr Pro

4380

<210> 4823
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 4823
 Leu Cys Cys Phe Lys Tyr Leu Gly Asp Cys Phe Ile Ile Ser Ser Thr
 1 5 10 15
 Lys Lys Thr Phe Asn Phe Ala Ile Glu Thr Val Glu Leu Cys His Ala
 20 25 30
 Phe Ile Arg Ser Ser Ala Leu Cys
 35 40

<210> 4824
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4824
 Thr Gln Leu Arg Glu Cys Leu Phe Arg Ala Trp Ser Cys Tyr Leu Tyr
 1 5 10 15
 Leu Lys Ser Ser His Pro Val Pro Cys Phe Arg Ala Gly Leu Gln Phe
 20 25 30
 His Cys Ser Phe Leu Lys Leu Leu Cys Pro Gln Leu Thr Leu Phe Xaa
 35 40 45
 Asn Val Val Phe His Trp Thr Gly Leu Leu Phe Leu Val Ser His Ala
 50 55 60
 Phe Gly Phe Tyr Xaa
 65

4381

<210> 4825

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4825

Val	Ser	Arg	Pro	Ala	Gly	Lys	Asp	Met	Met	Arg	Lys	Leu	Glu	Lys	His
1				5					10					15	

Met	Thr	Ala	Xaa	Lys	Gly	Pro	Met	Ile	Val	Leu	Val	Leu	Asp	Glu	Met
			20					25					30		

Asp	Gln	Leu	Asp	Ser	Lys	Xaa	Gln	Asp	Val	Leu	Tyr	Thr	Leu	Phe	Glu
	35						40					45			

Trp	Pro	Trp	Leu	Ser	Asn	Ser	His	Leu	Val	Leu	Ile	Gly	Ile	Ala	Asn
	50					55					60				

Thr	Leu	Asp	Leu	Thr	Asp	Arg	Ile	Leu	Pro	Arg	Leu	Gln	Ala	Arg	Glu
65					70					75					80

Lys	Cys	Lys	Pro	Gln	Leu	Leu	Asn	Phe	Pro	Pro	Tyr	Thr	Arg	Asn	Gln
				85					90					95	

Ile	Val	Thr	Ile	Leu	Gln	Asp	Arg	Leu	Asn	Gln	Val	Ser	Arg	Asp	Gln
			100					105					110		

Val	Leu	Asp	Asn	Ala	Ala	Val	Gln	Phe	Cys	Ala	Arg	Lys	Val	Ser	Ala
		115					120					125			

Val	Ser	Gly	Asp	Val	Arg	Lys	Ala	Leu	Asp	Val	Cys	Arg	Arg	Ala	Ile
	130					135					140				

Glu	Ile	Val	Glu	Ser	Asp	Val	Lys	Ser	Gln	Thr	Ile	Leu	Lys	Pro	Leu
145					150					155					160

Ser	Glu	Cys	Lys	Ser	Pro	Ser	Glu	Pro	Leu	Ile	Pro	Lys	Arg	Val	Gly
				165					170					175	

4382

Leu Ile His Ile Ser Gln Val Ile Ser Glu Val Asp Gly Asn Arg Met
 180 185 190
 Thr Leu Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln Lys
 195 200 205
 Ile Leu Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile Lys
 210 215 220
 Glu Val Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys Arg
 225 230 235 240
 Lys Gln Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Ser Leu Ser
 245 250 255
 Gly Leu Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys Glu
 260 265 270
 Thr Arg Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile Glu
 275 280 285
 His Ala Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr Gly
 290 295 300
 Leu Pro
 305

<210> 4826

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4826

Ala Ala Ala Gly Pro Gly Ala Cys Trp Ala Ser Pro Pro Arg Arg Leu
 1 5 10 15

His Ala Pro Thr Ala Xaa Ser Thr Xaa Ser Phe Gln Ala Arg Gln Leu
 20 25 30

4383

Leu Glu Lys Glu Phe Ser Asn Leu Ile Ser Leu Gly Thr Asp Arg Arg
 35 40 45
 Leu Asp Glu Asp Ser Ala Lys Ser Phe Ser Arg Ser Pro Ser Trp Arg
 50 55 60
 Lys Met Phe Arg Glu Lys Asp Leu Arg Gly Val Thr Pro Asp Ser Ala
 65 70 75 80
 Glu Met Leu Pro Pro Asn Phe Arg Ser Ala Ala Ala Gly Ala Leu Gly
 85 90 95
 Ser Pro Gly Leu Pro Leu Arg Lys Leu Gln Pro Glu Gly Gln Thr Ser
 100 105 110
 Gly Ser Ser Arg Ala Asp Gly Val Ser Val Arg Thr Tyr Ser Cys
 115 120 125

<210> 4827

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4827

Glu Ala Ala Asn Met Ile Leu Val Asp Asp Asp Phe Ser Ala Ile Met
 1 5 10 15
 Asn Ala Val Glu Glu Gly Lys Gly Ile Phe Tyr Asn Ile Lys Asn Phe
 20 25 30
 Val Arg Phe Gln Leu Ser Thr Ser Ile Ser Ala Leu Ser Leu Ile Thr
 35 40 45
 Leu Ser Thr Val Phe Asn Leu Pro Ser Pro Leu Asn Ala Met Gln Ile
 50 55 60
 Leu Trp Ile Asn Ile Ile Met Asp Gly Pro Pro Xaa Gln Arg
 65 70 75

<210> 4828

<211> 61

4384

<212> PRT

<213> Homo sapiens

<400> 4828

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Asn Ile Val Cys Ser Asp Phe Ile Lys Asp Ile Phe Lys Ser Pro Ile
 1             5             10             15

Tyr Ser Arg Ile Phe Ser Tyr Asp Val Ile Tyr Glu Lys Asp Val Cys
          20             25             30

Thr Asn Arg Cys Cys Asn Thr Thr Val Val Gly Phe Tyr Cys Leu Val
          35             40             45

Ile Asn Val Tyr Asn Ile Ser Lys Gly Asn Tyr Val Leu
 50             55             60

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<210> 4829

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4829

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Ala Leu Trp Gly Asp Ala Ser Gly Gln Ser Cys Leu Leu Ile Phe Ile
 1             5             10             15

Leu Arg Ala Ser Ala Leu Glu Xaa Leu Pro His Ala Phe Ser Val Asp
          20             25             30

His Ser Gly Pro Pro Val Gly Val Ala Cys Gln Ala Arg Thr Pro Pro
          35             40             45

Gly Gly Gln Ser Arg Asn Leu Arg Gly Ala Glu Thr Pro Phe Ile Ser
          50             55             60

Gly Cys His Arg Pro Glu Gln His Trp Ala Gly Cys Pro Leu Leu Thr
          65             70             75             80

Gly Trp Gln His Lys Asp Asn Met Ser Arg Gly Arg Arg Arg Arg Gly
          85             90             95

Ala Gln Ala Ala Gly His Ser Pro Ala Ala Pro Glu Ala Leu Ile Ser
          100             105             110

Asp His Gln Ala Met Thr Phe Leu Cys Ala Leu Gln Lys Ala Phe Asn

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4385

115

120

125

Cys Asp Gln Ala Val Cys Ser Asp Thr Leu Ser Gly Asp Phe
 130 135 140

<210> 4830

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4830

Gly Pro Arg His Ala Asp Phe Pro Cys Ser Ala Val Val Arg Lys Cys
 1 5 10 15

4386

Leu Ala Ala Xaa Gly Arg Arg Arg Gly Arg Gln Thr Tyr Ser Arg Phe
 20 25 30
 Gln Thr Leu Glu Leu Glu Lys Glu Phe Leu Phe Asn Pro Tyr Leu Thr
 35 40 45
 Arg Lys Arg Arg Ile Glu Val Ser His Ala Leu Ala Xaa Thr Glu Arg
 50 55 60
 Xaa Val Lys Ile Trp Phe Gln Asn Arg Arg Met Asn Gly Lys Xaa Lys
 65 70 75 80
 Thr Thr Arg Gln Ile Ser Arg Phe Pro Ala Gly Gly Glu Gly Arg Gly
 85 90 95
 Asn Glu Lys Xaa Ser Pro Arg Ala Gly Gly Arg Gln Ser Arg Arg Pro
 100 105 110
 Xaa Xaa Leu Thr Ser Thr Phe Lys Ile Tyr His Arg Leu Leu Lys Leu
 115 120 125
 Ile Ile Thr Ile Cys Cys Gly His His Leu Phe Ser Leu Leu Glu Arg
 130 135 140
 Thr Leu Pro Val Phe Gln Ala Thr Phe Met Ser Leu Leu Leu Arg Phe
 145 150 155 160
 Ser Val Leu

<210> 4831

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

4387

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4831

Glu Leu Lys Arg Leu Thr Ile Gly Lys Asn Xaa Xaa Arg Leu Thr Gly
 1 5 10 15

Asn Arg Xaa Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Glu Val
 20 25 30

Glu Glu Glu Gly Asp Val Asp Ser Asp Glu Glu Glu Glu Glu Asp Glu
 35 40 45

Glu Ser Ser Ser Glu Gly Leu Glu Ala Glu Asp Trp Ala Gln Gly Val
 50 55 60

Val Glu Ala Gly Gly Ser Phe Gly Ala Tyr Gly Ala Gln Glu Glu Ala
 65 70 75 80

Gln Cys Pro Thr Leu His Phe Leu Glu Gly Gly Glu Asp Ser Asp Ser
 85 90 95

Asp Ser Glu Glu Glu Asp Asp Glu Glu Glu Asp Asp Glu Asp Glu Asp
 100 105 110

Asp Asp Asp Asp Glu Glu Asp Gly Asp Glu Val Pro Val Pro Ser Phe
 115 120 125

Gly Glu Ala Met Ala Tyr Phe Ala Met Val Lys Arg Tyr Leu Thr Ser
 130 135 140

Phe Pro Ile Asp Asp Arg Val Gln Ser His Ile Leu His Leu Glu His
 145 150 155 160

Asp Leu Val His Val Thr Arg Lys Asn His Ala Arg Gln Ala Gly Val
 165 170 175

Arg Gly Leu Gly His Gln Ser
 180

<210> 4832

<211> 313

<212> PRT

<213> Homo sapiens

<400> 4832

4388

Gly	Arg	Phe	Gln	Lys	Cys	Leu	Ala	Val	Gly	Met	Ser	His	Asn	Ala	Ile	1	5	10	15
Arg	Phe	Gly	Arg	Met	Pro	Gln	Ala	Glu	Lys	Glu	Lys	Leu	Leu	Ala	Glu	20	25	30	
Ile	Ser	Ser	Asp	Ile	Asp	Gln	Leu	Asn	Pro	Glu	Ser	Ala	Asp	Leu	Arg	35	40	45	
Ala	Leu	Ala	Lys	His	Leu	Tyr	Asp	Ser	Tyr	Ile	Lys	Ser	Phe	Pro	Leu	50	55	60	
Thr	Lys	Ala	Lys	Ala	Arg	Ala	Ile	Leu	Thr	Gly	Lys	Thr	Thr	Asp	Lys	65	70	75	80
Ser	Pro	Phe	Val	Ile	Tyr	Asp	Met	Asn	Ser	Leu	Met	Met	Gly	Glu	Asp	85	90	95	
Lys	Ile	Lys	Phe	Lys	His	Ile	Thr	Pro	Leu	Gln	Glu	Gln	Ser	Lys	Glu	100	105	110	
Val	Ala	Ile	Arg	Ile	Phe	Gln	Gly	Cys	Gln	Phe	Arg	Ser	Val	Glu	Ala	115	120	125	
Val	Gln	Glu	Ile	Thr	Glu	Tyr	Ala	Lys	Ser	Ile	Pro	Gly	Phe	Val	Asn	130	135	140	
Leu	Asp	Leu	Asn	Asp	Gln	Val	Thr	Leu	Leu	Lys	Tyr	Gly	Val	His	Glu	145	150	155	160
Ile	Ile	Tyr	Thr	Met	Leu	Ala	Ser	Leu	Met	Asn	Lys	Asp	Gly	Val	Leu	165	170	175	
Ile	Ser	Glu	Gly	Gln	Gly	Phe	Met	Thr	Arg	Glu	Phe	Leu	Lys	Ser	Leu	180	185	190	
Arg	Lys	Pro	Phe	Gly	Asp	Phe	Met	Glu	Pro	Lys	Phe	Glu	Phe	Ala	Val	195	200	205	
Lys	Phe	Asn	Ala	Leu	Glu	Leu	Asp	Asp	Ser	Asp	Leu	Ala	Ile	Phe	Ile	210	215	220	
Ala	Val	Ile	Ile	Leu	Ser	Gly	Asp	Arg	Pro	Gly	Leu	Leu	Asn	Val	Lys	225	230	235	240
Pro	Ile	Glu	Asp	Ile	Gln	Asp	Asn	Leu	Leu	Gln	Ala	Leu	Glu	Leu	Gln	245	250	255	
Leu	Lys	Leu	Asn	His	Pro	Glu	Ser	Ser	Gln	Leu	Phe	Ala	Lys	Leu	Leu	260	265	270	

4389

Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val Gln Leu
 275 280 285

Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu
 290 295 300

Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
 305 310

<210> 4833

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4833

Lys Ser Gly Ile Leu Val Asn Asn Val Xaa Met Ser Tyr Glu Tyr Pro
 1 5 10 15

Glu Tyr Phe Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Met
 20 25 30

Ile Asn Ile Asn Ile Leu Ser Val Cys Lys Met Thr Gln Leu Val Leu
 35 40 45

Pro Gly Met Val Glu Arg Ser Lys Gly Ala Ile Leu Asn Ile Ser Ser
 50 55 60

Gly Ser Gly Met Leu Pro Val Pro Leu Leu Thr Ile Tyr Ser Ala Thr
 65 70 75 80

Lys Thr Phe Val Asp Phe Phe Ser Gln Cys Leu His Glu Glu Tyr Arg
 85 90 95

Ser Lys Gly Val Phe Val Gln Ser Val Leu Pro Tyr Phe Val Ala Thr
 100 105 110

Lys Leu Ala Lys Ile Arg Lys Pro Thr Leu Asp Lys Pro Ser Pro Glu
 115 120 125

Thr Phe Val Lys Ser Ala Ile Lys Thr Val Gly Leu Gln Ser Arg Thr
 130 135 140

Asn Gly Tyr Leu Ile His Ala Leu Met Gly Ser Ile Ile Ser Asn Leu
 145 150 155 160

4390

Pro Ser Trp Ile Tyr Leu Lys Ile Val Met Asn Met Asn Lys Ser Thr
 165 170 175

Arg Ala His Tyr Leu Lys Lys Thr Lys Lys Asn
 180 185

<210> 4834

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4834

Ser Ile Glu Phe Ser Gly His Leu Phe Phe Pro Leu Pro Leu Leu Arg
 1 5 10 15

Pro Ser Pro Pro Leu Ile Ile Ile Gln Val Val Val Lys Ile Val Leu
 20 25 30

Leu Ser Asp Pro Phe Leu Val Trp Leu Phe Ile Pro Ser Glu Gln Val
 35 40 45

Asn Val Gly Ala Thr Ala Leu Val Ser Thr Val Ser Leu Thr Val Asn
 50 55 60

Glu Pro Pro Gly Val Ser Ser Lys Lys Arg Lys Gly Val Thr Gly Thr
 65 70 75 80

Thr Ala Leu Phe His Phe Ile Asn Cys Leu Phe Met Leu Pro Ala Gln
 85 90 95

Val Ser Thr

<210> 4835

<211> 301

<212> PRT

<213> Homo sapiens

<400> 4835

Leu Arg Val Phe Leu Cys Val Phe Phe Tyr Phe Ala Trp Leu Phe Glu
 1 5 10 15

His Tyr Trp Thr Leu Val Leu Glu Gly Lys Thr Phe Gln Leu Tyr Ser
 20 25 30

His Asn Leu Ile Ala Leu Phe Glu His Ala Lys Lys Pro Gly Leu Ala

4391

35	40	45
Ala His Ile Gln Thr His Arg Phe Pro Asp Arg Ile Leu Pro Arg Lys		
50	55	60
Phe Ala Leu Thr Thr Lys Ile Pro Asp Thr Lys Gly Cys His Lys Cys		
65	70	75
Cys Ile Val Arg Asn Pro Tyr Thr Gly His Lys Tyr Leu Cys Gly Ala		
	85	90
Leu Gln Ser Gly Ile Val Leu Leu Gln Trp Tyr Glu Pro Met Gln Lys		
	100	105
Phe Met Leu Ile Lys His Phe Asp Phe Pro Leu Pro Ser Pro Leu Asn		
	115	120
Val Phe Glu Met Leu Val Ile Pro Glu Gln Glu Tyr Pro Met Val Cys		
	130	135
Val Ala Ile Ser Lys Gly Thr Glu Ser Asn Gln Val Val Gln Phe Glu		
	145	150
Thr Ile Asn Leu Asn Ser Ala Ser Ser Trp Phe Thr Glu Ile Gly Ala		
	165	170
Gly Ser Gln Gln Leu Asp Ser Ile His Val Thr Gln Leu Glu Arg Asp		
	180	185
Thr Val Leu Val Cys Leu Asp Lys Phe Val Lys Ile Val Asn Leu Gln		
	195	200
Gly Lys Leu Lys Ser Ser Lys Lys Leu Ala Ser Glu Leu Ser Phe Asp		
	210	215
Phe Arg Ile Glu Ser Val Val Cys Leu Gln Asp Ser Val Leu Ala Phe		
	225	230
Trp Lys His Gly Met Gln Gly Lys Ser Phe Lys Ser Asp Glu Val Thr		
	245	250
Gln Glu Ile Ser Asp Glu Thr Arg Val Phe Arg Leu Leu Gly Ser Asp		
	260	265
Arg Val Val Val Leu Glu Ser Arg Pro Thr Glu Asn Pro Thr Ala His		
	275	280
Ser Asn Leu Tyr Ile Leu Ala Gly His Glu Asn Ser Tyr		
	290	300

4392

<210> 4836

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (342)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (348)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (351)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4836

Phe	Pro	Gly	Ser	Gly	Asn	Met	Ala	Lys	Asp	Ala	Gly	Leu	Ile	Glu	Ala
1				5				10						15	

Asn	Gly	Glu	Leu	Lys	Val	Phe	Ile	Asp	Gln	Asn	Leu	Ser	Pro	Gly	Lys
			20					25					30		

Gly	Val	Val	Ser	Leu	Val	Ala	Val	His	Pro	Ser	Thr	Val	Asn	Pro	Leu
		35					40					45			

Gly	Lys	Gln	Leu	Leu	Pro	Lys	Thr	Phe	Gly	Gln	Ser	Asn	Val	Asn	Ile
	50					55					60				

Ala	Gln	Gln	Val	Val	Ile	Gly	Thr	Pro	Gln	Arg	Pro	Ala	Ala	Ser	Asn
65					70					75					80

Thr	Leu	Val	Val	Gly	Ser	Pro	His	Thr	Pro	Ser	Thr	His	Phe	Ala	Ser
				85					90					95	

Gln	Asn	Gln	Pro	Ser	Asp	Ser	Ser	Pro	Trp	Ser	Ala	Gly	Lys	Arg	Asn
			100					105					110		

Arg	Lys	Gly	Glu	Lys	Asn	Gly	Lys	Gly	Leu	Arg	His	Phe	Ser	Met	Lys
		115					120						125		

4393

Val Cys Glu Lys Val Gln Arg Lys Gly Thr Thr Ser Tyr Asn Glu Val
 130 135 140
 Ala Asp Glu Leu Val Ala Glu Phe Ser Ala Ala Asp Asn His Ile Leu
 145 150 155 160
 Pro Asn Glu Ser Ala Tyr Asp Gln Lys Asn Ile Arg Arg Arg Val Tyr
 165 170 175
 Asp Ala Leu Asn Val Leu Met Ala Met Asn Ile Ile Ser Lys Glu Lys
 180 185 190
 Lys Glu Ile Lys Trp Ile Gly Leu Pro Thr Asn Ser Ala Gln Glu Cys
 195 200 205
 Gln Asn Leu Glu Val Glu Arg Gln Arg Arg Leu Glu Arg Ile Lys Gln
 210 215 220
 Lys Gln Ser Gln Leu Gln Glu Leu Ile Leu Gln Gln Ile Ala Phe Lys
 225 230 235 240
 Asn Leu Val Gln Arg Asn Arg His Ala Glu Gln Gln Ala Ser Arg Pro
 245 250 255
 Pro Pro Pro Asn Ser Val Ile His Leu Pro Phe Ile Ile Val Asn Thr
 260 265 270
 Ser Lys Lys Thr Val Ile Asp Cys Ser Ile Ser Asn Asp Lys Phe Glu
 275 280 285
 Tyr Leu Phe Asn Phe Asp Asn Thr Phe Glu Ile His Asp Asp Ile Glu
 290 295 300
 Val Leu Lys Arg Met Gly Met Ala Cys Gly Leu Glu Ser Gly Ser Cys
 305 310 315 320
 Ser Ala Glu Asp Leu Lys Met Ala Arg Ser Leu Val Pro Lys Ala Leu
 325 330 335
 Glu Pro Tyr Val Thr Xaa Met Ala Gln Gly Thr Xaa Gly Gly Xaa Xaa
 340 345 350
 Leu Cys Gln
 355

<210> 4837

<211> 263

<212> PRT

<213> Homo sapiens

4394

<400> 4837

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Trp Ile Thr Tyr Gln Gly Phe Leu Ser Gln Trp Thr Leu Thr Thr Tyr
 1             5             10             15

Leu Asp Val Gln Arg Cys Leu Glu Tyr Leu Gly Tyr Leu Gly Tyr Ser
          20             25             30

Ile Leu Thr Glu Gln Glu Ser Gln Ala Ser Ala Val Thr Val Thr Arg
      35             40             45

Asp Lys Lys Ile Asp Leu Gln Lys Lys Gln Thr Gln Arg Asn Val Phe
 50             55             60

Arg Cys Asn Val Ile Gly Val Lys Asn Cys Gly Lys Ser Gly Val Leu
 65             70             75             80

Gln Ala Leu Leu Gly Arg Asn Leu Met Arg Gln Lys Lys Ile Arg Glu
          85             90             95

Asp His Lys Ser Tyr Tyr Ala Ile Asn Thr Val Tyr Val Tyr Gly Gln
      100             105             110

Glu Lys Tyr Leu Leu Leu His Asp Ile Ser Glu Ser Glu Phe Leu Thr
      115             120             125

Glu Ala Glu Ile Ile Cys Asp Val Val Cys Leu Val Tyr Asp Val Ser
      130             135             140

Asn Pro Lys Ser Phe Glu Tyr Cys Ala Arg Ile Phe Lys Gln His Phe
      145             150             155             160

Met Asp Ser Arg Ile Pro Cys Leu Ile Val Ala Ala Lys Ser Asp Leu
          165             170             175

His Glu Val Lys Gln Glu Tyr Ser Ile Ser Pro Thr Asp Phe Cys Arg
          180             185             190

Lys His Lys Met Pro Pro Pro Gln Ala Phe Thr Cys Asn Thr Ala Asp
      195             200             205

Ala Pro Ser Lys Asp Ile Phe Val Lys Leu Thr Thr Met Ala Met Tyr
      210             215             220

Pro His Val Thr Gln Ala Asp Leu Lys Ser Ser Thr Phe Trp Leu Arg
      225             230             235             240

Ala Ser Phe Gly Ala Thr Val Phe Ala Val Leu Gly Phe Ala Met Tyr
          245             250             255

Lys Ala Leu Leu Lys Gln Arg

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4395

260

<210> 4838

<211> 285

<212> PRT

<213> Homo sapiens

<400> 4838

Gly Arg Met Asn Trp Thr Gly Leu Tyr Thr Leu Leu Ser Gly Val Asn
 1 5 10 15
 Arg His Ser Thr Ala Ile Gly Arg Val Trp Leu Ser Val Ile Phe Ile
 20 25 30
 Phe Arg Ile Met Val Leu Val Val Ala Ala Glu Ser Val Trp Gly Asp
 35 40 45
 Glu Lys Ser Ser Phe Ile Cys Asn Thr Leu Gln Pro Gly Cys Asn Ser
 50 55 60
 Val Cys Tyr Asp Gln Phe Phe Pro Ile Ser His Val Arg Leu Trp Ser
 65 70 75 80
 Leu Gln Leu Ile Leu Val Ser Thr Pro Ala Leu Leu Val Ala Met His
 85 90 95
 Val Ala His Gln Gln His Ile Glu Lys Lys Met Leu Arg Leu Glu Gly
 100 105 110
 His Gly Asp Pro Leu His Leu Glu Glu Val Lys Arg His Lys Val His
 115 120 125
 Ile Ser Gly Thr Leu Trp Trp Thr Tyr Val Ile Ser Val Val Phe Arg
 130 135 140
 Leu Leu Phe Glu Ala Val Phe Met Tyr Val Phe Tyr Leu Leu Tyr Pro
 145 150 155 160
 Gly Tyr Ala Met Val Arg Leu Val Lys Cys Asp Val Tyr Pro Cys Pro
 165 170 175
 Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe
 180 185 190
 Thr Val Phe Met Leu Ala Ala Ser Gly Ile Cys Ile Ile Leu Asn Val
 195 200 205
 Ala Glu Val Val Tyr Leu Ile Ile Arg Ala Cys Ala Arg Arg Ala Gln
 210 215 220

4396

Arg Arg Ser Asn Pro Pro Ser Arg Lys Gly Ser Gly Phe Gly His Arg
 225 230 235 240

Leu Ser Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu
 245 250 255

Gln Asp Gly Ser Leu Lys Asp Ile Leu Arg Arg Ser Pro Gly Thr Gly
 260 265 270

Ala Gly Leu Ala Glu Lys Ser Asp Arg Cys Ser Ala Cys
 275 280 285

<210> 4839

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4839

Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Arg Ile Ser
 1 5 10 15

Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Glu
 20 25 30

Ala Arg Glu Ser Leu Glu Pro Arg Arg Trp Arg Leu Gln
 35 40 45

<210> 4840

<211> 280

<212> PRT

<213> Homo sapiens

<400> 4840

Arg Ala Glu Ser Val Pro Ala His Pro Cys Gly Phe Pro Ala Pro Leu
 1 5 10 15

Pro Pro Thr Arg Met Met Glu Ser Lys Met Ile Ala Ala Ile His Ser
 20 25 30

Ser Ser Ala Asp Ala Thr Ser Ser Ser Asn Tyr His Ser Phe Val Thr
 35 40 45

Ala Ser Ser Thr Ser Val Asp Asp Ala Leu Pro Leu Pro Leu Pro Val
 50 55 60

Pro Gln Pro Lys His Ala Ser Gln Lys Thr Val Tyr Ser Ser Phe Ala

4397

65		70		75		80									
Arg	Pro	Asp	Val	Thr	Thr	Glu	Pro	Phe	Gly	Pro	Asp	Asn	Cys	Leu	His
				85					90					95	
Phe	Asn	Met	Thr	Pro	Asn	Cys	Gln	Tyr	Arg	Pro	Gln	Ser	Val	Pro	Pro
			100					105					110		
His	His	Asn	Lys	Leu	Glu	Gln	His	Gln	Val	Tyr	Gly	Ala	Arg	Ser	Glu
		115					120					125			
Pro	Pro	Ala	Ser	Met	Gly	Leu	Arg	Tyr	Asn	Thr	Tyr	Val	Ala	Pro	Gly
		130				135					140				
Arg	Asn	Ala	Ser	Gly	His	His	Ser	Lys	Pro	Cys	Ser	Arg	Val	Glu	Tyr
145					150					155				160	
Val	Ser	Ser	Leu	Ser	Ser	Ser	Val	Arg	Asn	Thr	Cys	Tyr	Pro	Glu	Asp
			165					170						175	
Ile	Pro	Pro	Tyr	Pro	Thr	Ile	Arg	Arg	Val	Gln	Ser	Leu	His	Ala	Pro
			180					185					190		
Pro	Ser	Ser	Met	Ile	Arg	Ser	Val	Pro	Ile	Ser	Arg	Thr	Glu	Val	Pro
		195					200					205			
Pro	Asp	Asp	Glu	Pro	Ala	Tyr	Cys	Pro	Arg	Pro	Leu	Tyr	Gln	Tyr	Lys
	210					215					220				
Pro	Tyr	Gln	Ser	Ser	Gln	Ala	Arg	Ser	Asp	Tyr	His	Val	Thr	Gln	Leu
225					230					235					240
Gln	Pro	Tyr	Phe	Glu	Asn	Gly	Arg	Val	His	Tyr	Arg	Tyr	Ser	Pro	Tyr
			245						250					255	
Ser	Ser	Ser	Ser	Ser	Ser	Tyr	Tyr	Ser	Pro	Asp	Gly	Ala	Leu	Cys	Asp
			260					265					270		
Val	Asp	Ala	Tyr	Gly	Gln	Ser	Ser								
	275					280									

<210> 4841

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

4398

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4841

Ala	Met	Lys	Asn	Asn	Asn	Ile	Lys	Pro	Tyr	Gly	Leu	Ile	Leu	Lys	Phe
1				5				10					15		

Ile	Ile	Leu	Ile	Gln	Lys	Leu	Pro	His	Thr	Lys	Val	Thr	Glu	Leu	Pro
		20					25						30		

Tyr	Val	Ser	His	Ile	Val	Xaa	Glu	His	Lys	Thr	Leu	Thr	Thr	Pro	Leu
		35					40					45			

Ile	Val	Ser	Thr	Leu	Phe	Cys	Lys	Tyr	Ser	Glu	Tyr	Phe	Gly	Phe	Ile
	50					55					60				

Leu	Ser	Arg	Ile	Phe	Val	Phe	Asn	Phe	Ala	Asn	Glu	Ile	Phe	Asn	Asn
65					70					75					80

<210> 4842

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4842

Pro	Ala	Lys	Gly	Lys	Lys	Lys	Cys	Ser	Pro	His	Ser	Cys	Lys	Gly	Leu
1				5					10				15		

Gln	Leu	Ala	Thr	Ala	Asn	Arg	Lys	Ile	Lys	Met	Ile	Glu	Pro	Phe	Gly
		20					25						30		

Asn	Gln	Tyr	Ile	Val	Ala	Arg	Pro	Val	Tyr	Ser	Thr	Asn	Ala	Phe	Glu
		35					40					45			

Glu	Asn	His	Lys	Lys	Thr	Gly	Arg	His	His	Lys	Thr	Phe	Leu	Asp	His
	50					55					60				

Leu	Lys	Val	Cys	Cys	Asn	Cys	Ser	Pro	Gln	Lys	Ala	Arg	Glu	Leu	Ser
65					70					75					80

Ser	Leu	Xaa	Phe	Pro
				85

4399

<210> 4843

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4843

Leu Ser Ala Cys Phe Ala Tyr His Arg Asp Ile Ser Met Ala Val Pro
1 5 10 15

Pro Cys Arg Val Ala Tyr Gln Thr Asp Val Asp Cys Xaa Ile Ser Trp
20 25 30

Gln His Gln Ser Met Gly Cys Leu Thr Phe Trp Tyr Leu Ser Ser Asp
35 40 45

His Pro Tyr Pro Met Phe Ser Phe Lys His Tyr Pro Ala Ser Leu Phe
50 55 60

Ile Ile Arg Asn Ser Gly Pro Ser Val Trp Trp His Leu Glu Ser Phe
65 70 75 80

Val Pro

<210> 4844

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (417)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4400

<222> (429)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4844

Glu	Pro	Leu	Ile	Glu	Leu	Ser	Asn	Pro	Gly	Ala	Ser	Gly	Ser	Leu	Phe	1	5	10	15
Phe	Val	Thr	Ser	Asp	Asp	Glu	Phe	Ile	Ile	Lys	Thr	Val	Gln	His	Lys	20	25	30	
Glu	Ala	Glu	Phe	Leu	Gln	Lys	Leu	Leu	Pro	Gly	Tyr	Tyr	Met	Asn	Leu	35	40	45	
Asn	Gln	Asn	Pro	Arg	Thr	Leu	Leu	Pro	Lys	Phe	Tyr	Gly	Leu	Tyr	Cys	50	55	60	
Met	Gln	Ser	Gly	Gly	Ile	Asn	Ile	Arg	Ile	Val	Val	Met	Asn	Asn	Val	65	70	75	80
Leu	Pro	Arg	Ser	Met	Arg	Met	His	Phe	Thr	Tyr	Asp	Leu	Lys	Gly	Ser	85	90	95	
Thr	Tyr	Lys	Arg	Arg	Ala	Ser	Arg	Lys	Glu	Arg	Glu	Lys	Ser	Asn	Pro	100	105	110	
Thr	Phe	Lys	Asp	Leu	Asp	Phe	Leu	Gln	Asp	Met	His	Glu	Gly	Leu	Tyr	115	120	125	
Phe	Asp	Thr	Glu	Thr	Tyr	Asn	Ala	Leu	Met	Lys	Thr	Leu	Gln	Arg	Asp	130	135	140	
Cys	Arg	Val	Leu	Glu	Ser	Phe	Lys	Ile	Met	Asp	Tyr	Ser	Leu	Leu	Leu	145	150	155	160
Gly	Ile	His	Phe	Leu	Asp	His	Ser	Leu	Lys	Glu	Lys	Glu	Glu	Glu	Thr	165	170	175	
Pro	Gln	Asn	Val	Pro	Asp	Ala	Lys	Arg	Thr	Gly	Met	Gln	Lys	Val	Leu	180	185	190	
Tyr	Ser	Thr	Ala	Met	Glu	Ser	Ile	Gln	Gly	Pro	Gly	Lys	Ser	Gly	Asp	195	200	205	
Gly	Ile	Ile	Thr	Glu	Asn	Pro	Asp	Thr	Met	Gly	Gly	Ile	Pro	Ala	Lys	210	215	220	
Ser	His	Arg	Gly	Glu	Lys	Leu	Leu	Leu	Phe	Met	Gly	Ile	Ile	Asp	Ile	225	230	235	240
Leu	Gln	Ser	Tyr	Arg	Leu	Met	Lys	Lys	Leu	Glu	His	Ser	Trp	Lys	Ala	245	250	255	

4401

Leu Val Tyr Asp Gly Asp Thr Val Ser Val His Arg Pro Ser Phe Tyr
 260 265 270
 Ala Asp Arg Phe Leu Lys Phe Met Asn Ser Arg Val Phe Lys Lys Ile
 275 280 285
 Gln Ala Leu Lys Ala Ser Pro Ser Lys Lys Arg Cys Asn Ser Ile Ala
 290 295 300
 Ala Leu Lys Ala Thr Ser Gln Glu Ile Val Ser Ser Ile Ser Gln Glu
 305 310 315 320
 Trp Lys Asp Glu Lys Arg Asp Leu Leu Thr Glu Gly Gln Ser Phe Ser
 325 330 335
 Ser Leu Asp Glu Glu Ala Leu Gly Ser Arg His Arg Pro Asp Leu Val
 340 345 350
 Pro Ser Thr Pro Ser Leu Phe Glu Ala Ala Ser Leu Ala Thr Thr Ile
 355 360 365
 Ser Ser Ser Ser Leu Tyr Val Asn Glu His Tyr Pro His Asp Arg Pro
 370 375 380
 Thr Leu Tyr Phe Lys Gln Gln Arg Val Thr Phe Gln Xaa Gln His Phe
 385 390 395 400
 Thr Leu Gly Arg Gly Asp Leu Leu Leu Gly Pro Leu Gly Pro Asn Ile
 405 410 415
 Xaa Gly Ser Cys Arg Val Thr Leu Phe Leu Trp Phe Xaa Arg
 420 425 430

<210> 4845

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4845

Lys Ile Val Ser Phe Phe Phe Phe Tyr Arg Lys Leu Ser Leu Cys Asn
 1 5 10 15
 Ser Val Ser Phe Arg Phe Leu Ser Cys Phe Cys Lys Leu Trp Glu Arg
 20 25 30
 Leu Thr Met Gln Met Cys Gln Arg His Thr Val Gly Cys Asn Ile Asn
 35 40 45

4402

Asn Phe Lys Cys Lys Phe Leu Trp Ile Asn Tyr Phe Tyr Ile Leu
 50 55 60

<210> 4846
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 4846

Ala Cys Pro Arg Pro Arg Thr Pro Asp Pro Ser His Pro Phe Gln Arg
 1 5 10 15

Pro Arg Ala Arg Pro Trp Thr Glu Leu Leu Val Leu Cys Arg Glu Thr
 20 25 30

Ile Gln Pro Lys Leu Trp Glu Ala Gln Ser Ile Glu Trp Ala Glu Ala
 35 40 45

Ala Gly Ala Glu Pro Gly Arg Val Leu Gly Val His Pro Ser Leu Arg
 50 55 60

Arg Gln Val Pro Gln Gly Pro Thr His Leu Lys Pro Ala Cys Thr Val
 65 70 75 80

Glu Val Val Glu Val Asp Thr Pro Arg Gly Phe Ser Lys Ala Arg Leu
 85 90 95

Ala Ala Pro Cys Ser Gly Lys Leu Asn Tyr Ser Arg Phe Arg Ser Ser
 100 105 110

Val Asp Ser His Gln Ser Gly Gly Val Leu Lys Glu Phe Tyr Val Asp
 115 120 125

<210> 4847
 <211> 175
 <212> PRT
 <213> Homo sapiens

<400> 4847

His Glu Leu Thr Asp Ala Ala Ser Ile Ala Ala Ala Arg Gly Glu Met
 1 5 10 15

Ser Glu Val Arg Pro Leu Ser Arg Asp Ile Leu Met Glu Thr Leu Leu
 20 25 30

4403

Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met Thr
 35 40 45
 Asp Ser Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu Glu
 50 55 60
 Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly
 65 70 75 80
 Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu Ser
 85 90 95
 Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln Thr
 100 105 110
 Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr Thr
 115 120 125
 Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly Ser
 130 135 140
 Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Leu Ala
 145 150 155 160
 Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys
 165 170 175

<210> 4848

<211> 179

<212> PRT

<213> Homo sapiens

<400> 4848

Ser Thr Leu Arg Ile Pro Gly Pro Cys Phe Pro Ser Glu Lys Thr His
 1 5 10 15
 Asn His Asp Pro Gln Pro Gly Asp Pro Asn Ser Arg Pro Ser Ser Pro
 20 25 30
 Lys Pro Ala Gln Pro Ala Leu Lys Met Gln Val Leu Tyr Glu Phe Glu
 35 40 45
 Ala Arg Asn Pro Arg Glu Leu Thr Val Val Gln Gly Glu Lys Leu Glu
 50 55 60
 Val Leu Asp His Ser Lys Arg Trp Trp Leu Val Lys Asn Glu Ala Gly
 65 70 75 80

4404

Arg	Ser	Gly	Tyr	Ile	Pro	Ser	Asn	Ile	Leu	Glu	Pro	Leu	Gln	Pro	Gly	
				85					90							95
Thr	Pro	Gly	Thr	Gln	Gly	Gln	Ser	Pro	Ser	Arg	Val	Pro	Met	Leu	Arg	
				100					105							110
Leu	Ser	Ser	Arg	Pro	Glu	Glu	Val	Thr	Asp	Trp	Leu	Gln	Ala	Glu	Asn	
				115					120							125
Phe	Ser	Thr	Ala	Thr	Val	Arg	Thr	Leu	Gly	Ser	Leu	Thr	Gly	Ser	Gln	
				130					135							140
Leu	Leu	Arg	Ile	Arg	Pro	Gly	Glu	Leu	Gln	Met	Leu	Cys	Pro	Gln	Glu	
145					150					155						160
Ala	Pro	Arg	Ile	Leu	Ser	Arg	Leu	Glu	Ala	Val	Arg	Arg	Met	Leu	Gly	
				165					170							175
Ile	Ser	Pro														

<210> 4849

$\langle 211 \rangle$ 111

<212> PRT

<213> Homo sapiens

<400> 4849

Leu	Arg	Arg	Ser	Gly	Leu	Ser	Arg	Asp	Ala	Thr	Leu	Thr	Cys	Leu	Val
1				5					10					15	
Pro	Ser	Ala	Ala	Phe	Gly	Cys	Ala	Gly	Lys	Leu	Arg	Arg	Gln	Trp	Pro
			20					25					30		
Arg	Asp	Pro	Ala	Cys	Leu	Arg	Arg	Pro	Arg	Leu	Asp	Ala	Lys	Glu	Leu
		35					40					45			
Gln	His	Pro	Gly	Asp	Lys	Met	Pro	Thr	Gly	Lys	Gln	Leu	Ala	Asp	Ile
	50					55					60				
Gly	Tyr	Lys	Thr	Phe	Ser	Thr	Ser	Met	Met	Leu	Leu	Thr	Val	Tyr	Gly
65					70					75					80
Gly	Tyr	Leu	Cys	Ser	Val	Arg	Val	Tyr	His	Tyr	Phe	Gln	Trp	Arg	Arg
				85					90					95	
Ala	Gln	Arg	Gln	Ala	Ala	Glu	Glu	Gln	Lys	Thr	Ser	Gly	Ile	Met	
			100					105					110		

4405

<210> 4850

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4850

Pro Met Gly Arg Arg Leu Trp Arg Leu Leu Leu Ser Pro Gln Leu Pro
 1 5 10 15

Ala Gly Gly Thr Val Ser Pro Phe Pro Gln Gly Thr Trp Leu Ser Gly
 20 25 30

Gly Asn Ala His Phe Pro Gly Leu Asp Cys Gln Leu Phe Leu Ala Gly
 35 40 45

Glu Glu Pro Cys Leu Ser Ala Pro Glu Pro Thr Val Arg Gly Xaa Ser
 50 55 60

Arg Leu Gln Pro Leu Ala Gln Ser Gln Gln Pro Ala Lys His Thr Glu
 65 70 75 80

Gly Asp Cys His Leu Pro Leu Pro Ala Ala Glu Pro Gln Arg Ser Asp
 85 90 95

Gly Ser Tyr Thr Gly Gln Gly Phe Leu Leu Gly Ile Thr Ser His Arg
 100 105 110

Asn Gln

<210> 4851

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4851

Arg Ala Tyr Lys Pro Ser Arg Val Leu Arg Glu Leu Gln Leu Asp Lys
 1 5 10 15

Asp Ser Val Trp His Gly Cys Gly Glu Val Leu Lys Ala Lys Tyr Lys
 20 25 30

Gly Lys Ser Tyr Arg Ala Thr Val Glu Ile Val Lys Thr Ala Asp Arg

4406

35	40	45
Val Thr Glu Phe Cys Arg Gln Thr Cys Ile Lys Leu Glu Cys Cys Pro		
50	55	60
Asn Leu Phe Gly Pro Arg Met Val Leu Asp Lys Cys Ser Glu Asn Cys		
65	70	75
Ser Val Leu Thr Lys Thr Lys Tyr Thr His Tyr Tyr Gly Lys Lys Lys		
	85	90
Asn Lys Arg Ile Gly Arg Pro Pro Gly Gly His Ser Asn Leu Ala Cys		
	100	105
Ala Leu Lys Lys Ala Ser Lys Arg Arg Lys Arg Arg Lys Asn Val Phe		
	115	120
Val His Lys Lys Lys Arg Ser Ser Ala Ser Val Asp Asn Thr Pro Ala		
	130	135
Gly Ser Pro Gln Gly Ser Gly Gly Glu Asp Glu Asp Asp Pro Asp Glu		
145	150	155
Gly Asp Asp Asp Ser Leu Ser Glu Gly Ser Thr Ser Glu Gln Gln Asp		
	165	170
Glu Leu Gln Glu Glu Ser Glu Met Ser Glu Lys Lys Ser Cys Ser Ser		
	180	185
Ser Pro Thr Gln Ser Glu Ile Ser Thr Ser Leu Pro Pro Asp Arg Gln		
	195	200
Arg Arg Lys Arg Glu Leu Arg Thr Phe Ser Phe Ser Asp Asp Glu Asn		
	210	215
Lys Pro Pro Ser Pro Lys Glu Ile Arg Ile Glu Val Ala Glu Arg Leu		
225	230	235
His Leu Asp Ser Asn Pro Leu Lys Trp Ser Val Ala Asp Val Val Arg		
	245	250
Phe Ile Arg Ser Thr Asp Cys Ala Pro Leu Ala Arg Ile Phe Leu Asp		
	260	265
Gln Glu Ile Asp Gly Gln Ala Leu Leu Leu Leu Thr Leu Pro Thr Val		
	275	280
Gln Glu Cys Met Asp Leu Lys Leu Gly Pro Ala Ile Lys Leu Cys His		
	290	300
His Ile Glu Arg Ile Lys Phe Ala Phe Tyr Glu Gln Phe Ala Asn		

4407

305

310

315

<210> 4852

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4852

Leu Pro Pro His His Pro Pro His Leu Phe Ser Gly Arg Val Gly Ile
 1 5 10 15

Ala Ala Gly Gly Asp Phe Gly Ser Leu Ala Thr Pro Ala Arg Thr Ala
 20 25 30

Gly Gln Pro Leu Cys Gly Asp Ala Trp Cys Pro Ile Cys Arg Pro Ser
 35 40 45

Glu Glu Cys Thr Ala Phe Thr Phe Tyr Cys Val Arg Val His Pro Asp
 50 55 60

Cys Ser Ile Gln Lys Ser Phe Phe Phe Pro His Arg Gln Ser Gly Asn
 65 70 75 80

Asp Ser Phe Pro Asp Cys Phe Cys Leu Val Pro Gly Asn Leu Glu Ser
 85 90 95

Ile Pro Gln

<210> 4853

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4853

Asp Pro Ser Ile Leu Glu Thr Asn Ala Pro Leu Lys Ser Asn Ile Tyr
 1 5 10 15

Thr Ala Val Asn Ile Cys Lys Val Ser Met Phe Asn Ser Leu Arg Ile
 20 25 30

Leu Arg Ile Met Asp Leu Leu Ala Lys Ile Pro Leu Lys Gln Leu Ser
 35 40 45

His Ile Ser Asn Phe Tyr Leu Gly Lys Gln Val
 50 55

4409

Val Leu Phe Tyr Phe Ala Leu Leu Ile Lys Glu Leu Val Glu Lys Lys
 65 70 75 80

Lys Lys Lys Thr

<210> 4856

<211> 105

<212> PRT

<213> Homo sapiens

<400> 4856

Val Asn Ser Arg Arg Gly Gly Lys Arg Ser Cys Arg Gly Gly Lys Asn
 1 5 10 15

Lys Pro Val Pro Thr Thr Glu Thr Pro Asn His Leu Ser Pro Val Asp
 20 25 30

Gly Pro Ala Lys Thr Ser Thr Gln Gln Asp Tyr Arg Gly Arg Asn Pro
 35 40 45

Lys Cys Trp Cys Gly Arg Ser Lys Thr Trp Gly Glu Phe Leu Asp Leu
 50 55 60

Glu Leu Arg Ala Met Gly Leu Asp Met Thr Gly Thr Asn Ser Cys His
 65 70 75 80

Met Phe Met Val Arg Cys His Thr Phe Ser Ala Val Leu Phe His Gln
 85 90 95

Tyr Leu Pro Gly Lys Gln Arg Met Cys
 100 105

<210> 4857

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

4410

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4857

Arg Phe Thr Ala Ser Ser Ser Ser Gly Met Val Pro Lys Leu Pro Ala
 1 5 10 15

Gly Lys Met Asn Asn Arg Asp Leu Lys Pro Gln Pro Asp Ile Val Leu
 20 25 30

Leu Pro Leu Pro Thr Ala Tyr Glu Leu Asp Ser Thr Lys Leu Lys Ser
 35 40 45

Pro Leu Ile Thr Ser Pro Met Phe Arg Asn Val Pro Thr Ala Asn Pro
 50 55 60

Thr Glu Pro Gly Ile Arg Arg Val Pro Gly Ala Ser Xaa Val Ile Arg
 65 70 75 80

Glu Ser Ser Ser Thr Thr Gly Met Val Val Gly Ile Val Ala Ala Ala
 85 90 95

Ala Leu Cys Ile Leu Ile Leu Leu Tyr Ala Met Tyr Lys Tyr Arg Asn
 100 105 110

Arg Asp Glu Gly Ser Tyr Gln Val Asp Glu Thr Arg Asn Tyr Ile Ser
 115 120 125

Asn Ser Ala Gln Ser Asn Gly Thr Leu Met Lys Gly Glu Ser Ser Xaa
 130 135 140

Xaa Arg Arg Ala Gly His Lys Lys Pro Glu Lys Thr Xaa Gly Gln Gly
 145 150 155 160

Lys Tyr Leu Thr Trp
 165

<210> 4858

<211> 48

<212> PRT

<213> Homo sapiens

4411

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4858

Ser	Leu	Ala	Lys	His	Leu	Asn	His	Leu	Ser	Ile	Leu	Ser	Trp	Xaa	Ile
1				5				10						15	

Ile	Ile	Lys	Ala	Gln	Asn	Asn	Leu	Leu	Leu	Glu	Asn	Met	Cys	Phe	Xaa
			20				25						30		

Asn	Glu	Xaa	Lys	Xaa	Ile	Lys	Lys	Xaa	Lys	Lys	Gly	Ala	Ala	Gly	Leu
		35				40					45				

<210> 4859

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4859

Glu	Gly	Met	Gly	His	Thr	Ser	Pro	Arg	Ala	Asp	Pro	Ala	Gly	Gly	Ser
1				5				10					15		

Pro	Gly	Ala	Gly	Ser	Cys	Arg	Pro	Gly	Ala	Gly	Pro	Cys	His	Pro	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4412

20 25 30
 Arg Ala Arg Asp Met Ala Gly Pro Gly His Pro Gly Ala Gly Leu Gly
 35 40 45
 Arg Pro Gly Arg His Arg Glu Gly Arg Asp Gly Arg Pro Arg Pro Ser
 50 55 60
 Ala Val Pro Ala Thr Pro Met His Arg Ser Ser Ser Leu Pro His Pro
 65 70 75 80
 Lys Ala Val Ala Gly Ala
 85

<210> 4860

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4860

His Arg Ala Xaa Ser Glu Ala Glu Met Gln Trp Arg Leu Gln Val Asn
 1 5 10 15
 Arg Leu Gln Glu Leu Ile Asp Gln Leu Glu Cys Lys Ala Pro Arg Leu
 20 25 30
 Glu Pro Leu Arg Glu Glu Asp Leu Ala Lys Gly Pro Asp Leu His Ile
 35 40 45
 Leu Met Ala Gln Arg Gln Val Gln Val Ala Glu Glu Gly Leu Gln Asp
 50 55 60
 Phe His Arg Ala Leu Arg Cys Tyr Val Asp Phe Thr Gly Ala Gln Ser
 65 70 75 80
 His Cys Leu His Val Ser Ala Gln Lys Met Leu Asp Gly Ala Ser Phe
 85 90 95
 Thr Leu Tyr Glu Phe Trp Gln Asp Glu Ala Ser Trp Arg Arg His Gln
 100 105 110
 Gln Ser Pro Gly Ser Lys Ala Phe Gln Arg Ile Leu Ile Asp His Cys
 115 120 125

4413

Gly Pro Arg Thr Pro Ser Pro Leu Cys Ser Ser Gln Pro Pro Gly Gly
 130 135 140

<210> 4861

<211> 595

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (392)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (393)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (571)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4861

Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
 1 5 10 15

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg
 20 25 30

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
 35 40 45

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr
 50 55 60

Gln Asp Ala Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val
 65 70 75 80

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe
 85 90 95

Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn
 100 105 110

Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr

4414

115		120		125
Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser				
130		135		140
Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala				
145		150		155
				160
Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu				
		165		170
				175
Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys				
		180		185
				190
Gln Ala His Asn Ser Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr				
		195		200
				205
Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn				
		210		215
				220
Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro				
		225		230
				235
				240
Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu				
		245		250
				255
Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr				
		260		265
				270
Leu Leu Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile				
		275		280
				285
Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val				
		290		295
				300
Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr				
		305		310
				315
				320
Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro				
		325		330
				335
Pro Ala Gln Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr				
		340		345
				350
Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr				
		355		360
				365
Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val				
		370		375
				380
Lys Thr Ile Thr Val Ser Ala Xaa Xaa Pro Lys Pro Ser Ile Ser Ser				

4415

385 390 395 400
 Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys
 405 410 415
 Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln
 420 425 430
 Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr
 435 440 445
 Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys
 450 455 460
 Gly Ile Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu
 465 470 475 480
 Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser
 485 490 495
 Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser
 500 505 510
 Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln
 515 520 525
 His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
 530 535 540
 Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
 545 550 555 560
 Ile Val Lys Ser Ile Thr Val Ser Ala Ser Xaa Thr Ser Pro Gly Leu
 565 570 575
 Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val Gly Val
 580 585 590
 Ala Leu Ile
 595

<210> 4862

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

4416

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4862

Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ala Leu Lys Glu
1 5 10 15

Val Phe Lys Glu Tyr Leu Ile Glu Leu Xaa Xaa Leu Gln His Phe Gln
20 25 30

Gly Asn Met Met Asp Phe Leu Ala Phe Lys Glu Arg Leu Tyr Gly Pro
35 40 45

Leu Gln Ala Tyr Leu Arg Gln Asn Asp Leu Asp Ile Glu Glu Glu Glu
50 55 60

Glu Glu His Phe Glu Val Ile Asn Asp Glu Val Lys Val Val Ala Arg
65 70 75 80

Lys His Gly Gln Pro Gly Thr Pro Val Ala Ile Ala Thr Xaa Xaa Pro
85 90 95

Pro Arg Thr Ser Ala Ala Phe Pro Ala Gln Gln Gln Pro Leu Gln Val
100 105 110

Leu Ser Asp Gly Ser Thr Val Gln Leu Pro Arg Leu Ser Ser Leu Gly
115 120 125

Phe Glu Asp Ser Met Cys
130

<210> 4863

<211> 209

<212> PRT

<213> Homo sapiens

4417

<400> 4863

Leu Val Pro Arg Pro Arg Pro Arg Gln Leu Cys Ala Val Ile His Ser
 1 5 10 15
 Leu Leu Arg Pro Gly Ala Pro Phe Pro Ala Arg Arg Arg Ala Arg Gln
 20 25 30
 Leu Gly Val Gln Arg Pro Arg Asn His Glu Gln Val Ser Arg Ser Ser
 35 40 45
 Glu Ala Pro Gly Thr Pro Ala His Ala Met Ala Asp Ser Glu Arg Leu
 50 55 60
 Ser Ala Pro Gly Cys Trp Ala Ala Cys Thr Asn Phe Ser Arg Thr Arg
 65 70 75 80
 Lys Gly Ile Leu Leu Phe Ala Glu Ile Ile Leu Cys Leu Val Ile Leu
 85 90 95
 Ile Cys Phe Ser Ala Ser Thr Pro Gly Tyr Ser Ser Leu Ser Val Ile
 100 105 110
 Glu Met Ile Leu Ala Ala Ile Phe Phe Val Val Tyr Met Cys Asp Leu
 115 120 125
 His Thr Lys Ile Pro Phe Ile Asn Trp Pro Trp Ser Asp Phe Phe Arg
 130 135 140
 Thr Leu Ile Ala Ala Ile Leu Tyr Leu Ile Thr Ser Ile Val Val Leu
 145 150 155 160
 Val Glu Arg Gly Asn His Ser Lys Ile Val Ala Gly Val Leu Gly Leu
 165 170 175
 Ile Ala Thr Cys Leu Phe Gly Tyr Asp Ala Tyr Val Thr Phe Pro Val
 180 185 190
 Arg Gln Pro Arg His Thr Ala Ala Pro Thr Asp Pro Ala Asp Gly Pro
 195 200 205

Val

<210> 4864

<211> 129

<212> PRT

<213> Homo sapiens

4418

<400> 4864

Val Cys Val Arg Val Arg Gly Arg Asn Arg Ser Ala Arg Ser Leu Pro
 1 5 10 15
 Leu Glu Gln Cys Leu Pro Gln Tyr Phe Cys Arg Gly Lys Asp Arg Asn
 20 25 30
 Ser Leu Leu Gly Phe Leu Gln Ser Pro Cys Thr Cys Gln Ser Phe Ser
 35 40 45
 Tyr Gln Cys Lys Gly Asn Pro Glu Leu Arg Phe Glu Leu Ser His His
 50 55 60
 Leu His Gly Gln Ile Ser Pro Leu Pro Lys Gly Ser Phe Arg Leu Trp
 65 70 75 80
 Val Tyr Leu Phe Leu His Ala Ser Ser Trp Gln Cys Pro Val Glu Ala
 85 90 95
 Tyr Leu Pro Ile Cys Val Cys Ile His Ser Leu Lys Thr Thr Arg Gln
 100 105 110
 Lys Lys Lys Lys Lys Thr Arg Gly Gly Ala Arg Tyr Pro Ile Arg Ala
 115 120 125
 Ile

<210> 4865

<211> 316

<212> PRT

<213> Homo sapiens

<400> 4865

Cys Met Asp Phe Gly Val Leu Val Pro Thr Ala Tyr Met Phe Trp Gly
 1 5 10 15
 Leu Leu Ser Cys Ser Leu Pro Thr Phe Cys Val Met Ser Val Pro Gly
 20 25 30
 Arg Trp Pro Pro Ala Arg Trp Arg Leu Ser Ile Leu Ala Val Ser Ile
 35 40 45
 Met Pro Cys Val Cys Leu Ala Ser Leu Leu Gln Ile Leu Trp Thr Arg
 50 55 60
 Ser Ser Ser Pro Ala His His Leu Ala Ser Pro Phe Leu Cys Val Gln
 65 70 75 80

4419

Ile Trp Gln Cys Gly Gly Val Leu Glu Thr His Pro Cys Ser His Val
 85 90 95
 Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser Arg Asn Lys Ala Leu
 100 105 110
 Ala Asn Ser Val Arg Ala Ala Glu Val Trp Met Asp Glu Phe Lys Glu
 115 120 125
 Leu Tyr Tyr His Arg Asn Pro Arg Ala Arg Leu Glu Pro Phe Gly Asp
 130 135 140
 Val Thr Glu Arg Lys Gln Leu Arg Asp Lys Leu Gln Cys Lys Asp Phe
 145 150 155 160
 Lys Trp Phe Leu Glu Thr Val Tyr Pro Glu Leu His Val Pro Glu Asp
 165 170 175
 Arg Pro Gly Phe Phe Gly Met Leu Gln Asn Lys Gly Leu Thr Asp Tyr
 180 185 190
 Cys Phe Asp Tyr Asn Pro Pro Asp Glu Asn Gln Ile Val Gly His Gln
 195 200 205
 Val Ile Leu Tyr Leu Cys His Gly Met Gly Gln Asn Gln Phe Phe Glu
 210 215 220
 Tyr Thr Ser Gln Lys Glu Ile Arg Tyr Asn Thr His Gln Pro Glu Gly
 225 230 235 240
 Cys Ile Ala Val Glu Ala Gly Met Asp Thr Leu Ile Met His Leu Cys
 245 250 255
 Glu Glu Thr Ala Pro Glu Asn Gln Lys Phe Ile Leu Gln Glu Asp Gly
 260 265 270
 Ser Leu Phe His Glu Gln Ser Lys Lys Cys Val Gln Ala Ala Arg Lys
 275 280 285
 Glu Ser Ser Asp Ser Phe Val Pro Leu Leu Arg Asp Cys Thr Asn Ser
 290 295 300
 Asp His Gln Lys Trp Phe Phe Lys Glu Arg Met Leu
 305 310 315

<210> 4866

<211> 220

<212> PRT

<213> Homo sapiens

4420

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4866

Lys Ala Arg Arg Arg Gly Thr Met Ala Ala Ala Asp Glu Arg Ser
 1 5 10 15

Pro Glu Asp Gly Glu Asp Glu Glu Glu Glu Gln Leu Val Leu Val
 20 25 30

Glu Leu Ser Gly Ile Ile Asp Ser Xaa Phe Leu Ser Lys Cys Glu Asn
 35 40 45

Lys Cys Lys Val Leu Gly Ile Asp Thr Glu Arg Pro Ile Leu Gln Val
 50 55 60

Asp Ser Cys Val Phe Ala Gly Glu Tyr Glu Asp Thr Leu Gly Thr Cys
 65 70 75 80

Val Ile Phe Glu Glu Asn Val Glu His Ala Asp Thr Glu Gly Asn Asn
 85 90 95

Lys Thr Val Leu Lys Tyr Lys Cys His Thr Met Lys Lys Leu Ser Met
 100 105 110

Thr Arg Thr Leu Leu Thr Glu Lys Lys Glu Gly Glu Glu Asn Ile Gly
 115 120 125

Gly Val Glu Trp Leu Gln Ile Lys Asp Asn Asp Phe Ser Tyr Arg Pro
 130 135 140

Asn Met Ile Cys Asn Phe Leu His Glu Asn Glu Asp Glu Glu Val Val
 145 150 155 160

Ala Ser Ala Pro Asp Lys Ser Leu Glu Leu Glu Glu Glu Ile Gln
 165 170 175

Met Asn Asp Ser Ser Asn Leu Ser Cys Glu Gln Glu Lys Pro Met His
 180 185 190

Leu Glu Ile Glu Asp Ser Gly Pro Leu Ile Asp Ile Pro Ser Glu Thr
 195 200 205

Glu Gly Ser Val Phe Met Glu Thr Gln Met Leu Pro
 210 215 220

4421

<210> 4867

<211> 88

<212> PRT

<213> Homo sapiens

<400> 4867

Lys Thr Leu Phe Thr Tyr Ser Phe His Gly Tyr Asn Thr Leu Ala Asp
 1 5 10 15

Phe Leu Leu Ala Leu Gly Ala Met Ile Leu Ile Thr Phe Cys Lys Val
 20 25 30

Thr Asn Val Ile His Ser Thr Leu Cys Gly Ser His Leu Phe Arg Leu
 35 40 45

Met Cys Phe Gly Glu Arg Lys Lys Phe Leu Ala Glu Tyr Tyr Phe Glu
 50 55 60

Leu Ser Arg Thr Leu Ser His Gln Arg Gln Phe Phe Ser Val Gln Phe
 65 70 75 80

Pro Ile Pro Asp Asn Leu Leu Lys
 85

<210> 4868

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4868

Ser Leu Ile Cys Tyr Val Gln Ser Leu Lys Ala Thr Thr His Phe Phe
 1 5 10 15

Leu Lys Val Asp Ala Phe Ser Ala Val Leu Glu Ser Val Phe Cys Phe
 20 25 30

Trp Gln Glu Ser Cys Lys Leu Cys Ile Leu Lys Gln Met Gln Lys Val
 35 40 45

Val Leu Cys Lys Thr Phe Val Phe Cys Leu Ser Gln Ile Asn Ile Leu
 50 55 60

<210> 4869

<211> 66

4422

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4869

Met	Cys	Arg	Leu	Cys	Ile	Cys	Val	Asn	Ile	Tyr	Thr	Pro	Arg	Cys	His
1				5					10					15	

Ser	Lys	Cys	Leu	Glu	Ile	Thr	Val	His	Thr	Cys	Xaa	Leu	Pro	Ser	Ser
			20					25						30	

Leu	Glu	Leu	Leu	Ser	Cys	Asn	Met	Ala	Leu	Lys	Asn	Tyr	Pro	Ile	Ser
		35					40					45			

Xaa	Val	Leu	Cys	Leu	Gly	Asn	Met	Val	Asn	Trp	Arg	Ile	Leu	Thr	His
	50					55					60				

Ser	Val
65	

<210> 4870

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4870

Arg	His	Leu	Leu	Ile	His	Gly	Leu	Tyr	Arg	Asn	Glu	Ala	Gly	Cys	Asn
1				5					10					15	

Thr	Asn	Leu	Glu	Ser	Pro	Ser	Trp	Arg	Thr	Ile	Lys	Leu	Phe	Lys	Asp
		20						25						30	

His	Pro	Trp	Pro	Gly	Thr	Val	Val	His	Thr	Cys	Asn	Pro	Ser	Thr	Leu
		35					40						45		

Gly	Gly	Leu	Gly	Arg	Gln	Thr	Glu	Leu	Arg	Ser	Leu	Arg	Pro	Ala	Trp
	50					55					60				

Ala	Thr	Trp	Gln	Lys	Pro	Thr	Ser	Thr	Lys	Ser	Thr	Lys	Ile	Ser	Arg
65					70					75					80

4423

Ala

<210> 4871

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4871

Ala	Gly	Gln	Arg	His	Ser	Pro	Trp	Pro	Leu	Ile	Ala	Leu	Leu	Val	Arg
1				5					10					15	

Ala	Asp	Gly	Xaa	Pro	Arg	Ser	Val	Val	Pro	Ala	Trp	Xaa	Thr	Glu	Ala
		20						25					30		

Pro	Xaa	Ala	Thr	Leu	Glu	Xaa	Arg	Phe	Thr	Pro	His	Ala	Glu	Met	Asp
		35					40					45			

Leu	Gly	Gln	Leu	Ser	Ser	Gln	Asp	Val	Gly	Gln	Ala	Ser	Phe	Lys	Tyr
	50					55					60				

Phe	Gln	Ser	Ala	Glu	Glu	Ala	Lys	Arg	Ala	Ile	Glu	Ala	Val	Leu	Ser
	65				70					75					80

Ala	Asp	Pro	Arg	Ser	Val	Tyr	Arg	Arg	Lys	Leu	Cys	Gln	Asp	Arg	Leu
				85					90					95	

Phe	Tyr	Phe	Thr	Val	Asp	Ile	Ala	His	Val	Thr	Cys	Trp	Phe	Gly	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

			100					105					110				
Gly	Phe	Ala	Glu	Val	Leu	Arg	Ile	Lys	Pro	Ala	Ser	Glu	Pro	Val	His		
		115					120					125					
Met	Thr	Gly	Pro	Val	Gly	Ser	Leu	Val	Ser	Leu	Gly	Ser					
		130				135						140					

Lys Ile Glu Gly Leu Ile Ser Tyr Arg Asp Pro His Phe Trp Arg His
145 150 155 160

4425

[illegible]

<210> 4873

<211> 375

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4873

Ser Phe Gly Glu Arg Ala Pro Ser Thr Arg Ser Gly Asp Pro Leu Val
1 5 10 15

Ala Val Leu Pro Thr Arg Thr Arg Val Pro Gln Ala Ser Arg Cys Pro
20 25 30

Ala Gly Ser Ser Cys Pro Thr Pro Gly Ala Arg Pro Pro Ala Ser Pro
35 40 45

Gly Pro Leu Pro Arg Pro Ser Ser Arg Arg Ala Arg Ser Met Ala Pro
50 55 60

Pro Gln Val Leu Ala Phe Gly Leu Leu Leu Ala Ala Ala Thr Ala Thr
65 70 75 80

Phe Ala Ala Ala Gln Glu Glu Cys Val Cys Glu Asn Tyr Lys Leu Ala
85 90 95

Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys Thr Ser Val
100 105 110

4426

Gly Ala Gln Asn Thr Val Ile Cys Ser Lys Leu Ala Ala Lys Cys Leu
 115 120 125

Val Met Lys Ala Glu Met Asn Gly Ser Lys Leu Gly Arg Arg Ala Lys
 130 135 140

Pro Glu Gly Ala Leu Gln Asn Asn Asp Gly Leu Tyr Asp Pro Asp Cys
 145 150 155 160

Asp Glu Ser Gly Leu Phe Lys Ala Lys Gln Cys Asn Gly Thr Ser Xaa
 165 170 175

Cys Trp Cys Val Asn Thr Ala Gly Val Arg Arg Thr Asp Lys Asp Thr
 180 185 190

Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile Ile Ile Glu
 195 200 205

Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys Ser Leu Arg
 210 215 220

Thr Ala Leu Gln Lys Glu Ile Thr Thr Arg Tyr Gln Leu Asp Pro Lys
 225 230 235 240

Phe Ile Thr Ser Ile Leu Tyr Glu Asn Asn Val Ile Thr Ile Asp Leu
 245 250 255

Val Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val Asp Ile Ala Asp
 260 265 270

Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser Leu Phe His
 275 280 285

Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu Asp Leu Asp
 290 295 300

Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe
 305 310 315 320

Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile Val Val Val
 325 330 335

Val Ile Ala Val Val Ala Gly Ile Val Val Leu Val Ile Ser Arg Lys
 340 345 350

Lys Arg Met Ala Lys Tyr Glu Lys Ala Glu Ile Lys Glu Met Gly Glu
 355 360 365

Met His Arg Glu Leu Asn Ala
 370 375

4427

<210> 4874

<211> 106

<212> PRT

<213> Homo sapiens

<400> 4874

Ile Asn Gln Gln Leu Ala Leu Tyr Ile Trp Lys Ser Cys Arg His Ser
 1 5 10 15

Met Pro Ala Tyr Glu Ser Ser Leu Glu Trp Gly Cys Thr Leu Gln Arg
 20 25 30

His Arg Gly Arg Ala Ala Lys Thr Met Arg Val Tyr Phe Phe His Gln
 35 40 45

Cys Asp Leu Asn Val Arg His Arg Val Lys Gly Asp Tyr Phe Gly Ala
 50 55 60

Val Lys Phe Asn Glu Tyr Pro Ala Gly Phe Trp Thr Cys His Trp Leu
 65 70 75 80

Leu Ala Pro Leu Phe Cys Pro Ile Leu Leu Tyr Gly Met Gly Ala Ser
 85 90 95

Ser Ser Asn Ala Cys Thr Leu Ile Val Ser
 100 105

<210> 4875

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4875

Gln Ser Ala Met Ser Ser Arg Pro Leu Glu Ser Pro Pro Pro Tyr Arg
 1 5 10 15

Pro Asp Glu Phe Lys Pro Asn His Tyr Ala Pro Ser Asn Asp Ile Tyr
 20 25 30

Gly Gly Glu Met His Val Arg Pro Met Leu Ser Gln Pro Ala Tyr Ser
 35 40 45

Phe Tyr Pro Glu Asp Glu Ile Leu His Phe Tyr Lys Trp Thr Ser Pro
 50 55 60

Pro Gly Val Ile Arg Ile Leu Ser Met Leu Ile Ile Val Met Cys Ile

4428

65 70 75 80
Ala Ile Phe Ala Cys Val Ala Ser Arg Leu Pro
 85 90

<210> 4876

<211> 88

<212> PRT

<213> Homo sapiens

<400> 4876

Tyr Arg Lys Leu Phe Phe Pro Gln Leu Phe Glu Gln His Ser Ser Phe
1 5 10 15

Glu Asn Ser Cys Arg Ser Gln Phe Phe Val Thr Val Val Gln Ile Leu
 20 25 30

Cys Phe Leu Ser Leu Met Lys Ser Ser Ile Glu Ala Ile Phe His Thr
 35 40 45

Met Cys Tyr Ile Cys Val Arg Arg Cys Val Asn Ile Lys Ser His Thr
 50 55 60

His Ile Tyr Thr His Val Lys Ile Tyr Ile Tyr Ile Tyr Ala Cys Glu
65 70 75 80

Val Glu Ser Leu Pro Phe Pro Ile
 85

<210> 4877

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

4429

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4877

Lys Cys Trp Tyr Tyr Tyr Phe His Tyr Arg Ala Phe Gly Pro Leu Ile
 1 5 10 15

Met Leu Arg Trp Ala Asp Pro Ser Xaa Phe Cys Xaa Arg Val Ile Leu
 20 25 30

Gly Arg Val Phe Ser Ser Thr Val Lys Val Arg Gln Ser Gly Ser Val
 35 40 45

Thr Gly Asp Trp Asp Ile Trp Asn Lys Leu Arg Trp Asp Thr His Ser
 50 55 60

Glu Glu Arg Leu His Gly Ile Leu Trp Gly Thr Asn Tyr Cys Xaa Ile
 65 70 75 80

Thr Ser Asp Val Asn Met Ala His
 85

<210> 4878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4878

Gly Thr Lys Leu Asp Gly His Gln Thr Gln Gly Phe Val Lys Ile Arg
 1 5 10 15

Pro Pro Ile Pro Leu Thr Gly Ser Val Arg Cys Val Lys Leu Leu Ser
 20 25 30

Pro Val His His Ala Ser Met Ser Pro Gln Asp Trp Asp Leu Ser Leu
 35 40 45

Pro Gly Ser Leu Ser Leu Gly Ala Asp Met Glu Pro Ser Leu Arg Asp
 50 55 60

Gln Val Asp Ala Glu Ala His Pro Val Arg Ala Pro Leu Leu Ala Pro
 65 70 75 80

Phe Thr Leu Lys Leu Ile
 85

<210> 4879

<211> 106

4430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4879

Phe Cys Ser Trp Phe Ser Leu Gln Ala Leu Ala Lys Pro Cys Pro Arg
 1 5 10 15

Ser Pro Gln Thr Leu Arg Ala His Asp Gln Lys Glu Lys Glu Ser Gln
 20 25 30

Val Gly Glu Glu Gln Gly Pro Gln Leu His Ser Pro Pro Leu Xaa Pro
 35 40 45

Glu Gly Pro Pro Trp Ala Ala Trp Asn Pro Leu Lys Leu Pro Pro Pro
 50 55 60

Gln His Ser Ser Gly Ala Val Pro Gly Ser Ala Cys Ser Pro Trp Ala
 65 70 75 80

Gly Ser Val Pro Ala Ala Pro Pro Ser Val Cys Tyr Leu Ile Tyr Trp
 85 90 95

Asn Leu His Ser Gln Ala Leu Ala His Arg
 100 105

<210> 4880

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4880

Asn Val Ala Cys Asn Thr Val Leu Pro Ala Lys Phe Ser Thr Phe Cys
 1 5 10 15

Asn Leu Phe Tyr Phe Phe Gly Cys Lys Ala Phe Leu Leu Ser Ile Val
 20 25 30

Ile Leu Tyr Met Phe Cys Pro Ser Cys Ile Val Met Phe Gln Ser Ile
 35 40 45

Ile Gln Leu Trp Leu Leu Lys Ser Tyr Ser Cys Glu Asp Leu Pro Leu
 50 55 60

Phe Leu Leu Asp Cys Phe Ser Val Leu Tyr

4431

65

70

<210> 4881

<211> 201

<212> PRT

<213> Homo sapiens

<400> 4881

Cys Asn Leu Ala Lys Gly Val Ile Ser Ile Ser Phe Leu Lys Glu Glu
 1 5 10 15

Glu Gln Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg
 20 25 30

Gln Ala Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly
 35 40 45

His Ser Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val
 50 55 60

Ser Thr His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp
 65 70 75 80

Tyr Pro Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg
 85 90 95

Gln Ile Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr
 100 105 110

Glu Glu Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg
 115 120 125

Arg Asn Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro
 130 135 140

Glu Leu Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys
 145 150 155 160

Ala Thr Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile
 165 170 175

Ser Glu Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys
 180 185 190

Leu Glu Gln Leu Arg Asn Ser Cys Ala
 195 200

4432

<210> 4882

<211> 60

<212> PRT

<213> Homo sapiens

<400> 4882

Lys Gly Ile Val Arg Met Ser Leu Ser Ser Gly Ser Thr Thr Ala Val
 1 5 10 15

Ser Tyr Leu Gly Pro Val Leu Ser Gln Gly Gly Trp Leu Val Lys Val
 20 25 30

Met Cys Asp Leu Arg Arg Leu Ser Cys His Leu Pro His Val Asn Arg
 35 40 45

Lys Gly Gly Ile Leu Pro Pro Pro Glu Tyr Thr Gly
 50 55 60

<210> 4883

<211> 737

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (555)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (602)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4883

Pro Pro Arg Gly Leu Asp Pro Gly Ser Cys Cys Cys Cys Arg Cys Cys
 1 5 10 15

Cys Pro Leu Arg Pro Gln Pro Pro Thr Gly Pro Gly Ala Ala Asp Pro
 20 25 30

Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu Thr
 35 40 45

Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr Thr
 50 55 60

Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val Ala
 65 70 75 80

4433

Arg	Thr	Val	Gly	Gly	Gln	Lys	Val	Arg	Trp	Leu	Lys	Lys	Glu	Met	
85				90				95							
Glu	Lys	Tyr	Ala	Asp	Arg	Glu	Asp	Met	Ile	Ile	Met	Phe	Val	Asp	Ser
100				105				110							
Tyr	Asp	Val	Ile	Leu	Ala	Gly	Ser	Pro	Thr	Glu	Leu	Leu	Lys	Lys	Phe
115				120				125							
Val	Gln	Ser	Gly	Ser	Arg	Leu	Leu	Phe	Ser	Ala	Glu	Ser	Phe	Cys	Trp
130				135				140							
Pro	Glu	Trp	Gly	Leu	Ala	Glu	Gln	Tyr	Pro	Glu	Val	Gly	Thr	Gly	Lys
145				150				155				160			
Arg	Phe	Leu	Asn	Ser	Gly	Gly	Phe	Ile	Gly	Phe	Ala	Thr	Thr	Ile	His
165				170				175							
Gln	Ile	Val	Arg	Gln	Trp	Lys	Tyr	Lys	Asp	Asp	Asp	Asp	Asp	Gln	Leu
180				185				190							
Phe	Tyr	Thr	Arg	Leu	Tyr	Leu	Asp	Pro	Gly	Leu	Arg	Glu	Lys	Leu	Ser
195				200				205							
Leu	Asn	Leu	Asp	His	Lys	Ser	Arg	Ile	Phe	Gln	Asn	Leu	Asn	Gly	Ala
210				215				220							
Leu	Asp	Glu	Val	Val	Leu	Lys	Phe	Asp	Arg	Asn	Arg	Val	Arg	Ile	Arg
225				230				235				240			
Asn	Val	Ala	Tyr	Asp	Thr	Leu	Pro	Ile	Val	Val	His	Gly	Asn	Gly	Pro
245				250				255							
Thr	Lys	Leu	Gln	Leu	Asn	Tyr	Leu	Gly	Asn	Tyr	Val	Pro	Asn	Gly	Trp
260				265				270							
Thr	Pro	Glu	Gly	Gly	Cys	Gly	Phe	Cys	Asn	Gln	Asp	Arg	Arg	Thr	Leu
275				280				285							
Pro	Gly	Gly	Gln	Pro	Pro	Pro	Arg	Val	Phe	Leu	Ala	Val	Phe	Val	Glu
290				295				300							
Gln	Pro	Thr	Pro	Phe	Leu	Pro	Arg	Phe	Leu	Gln	Arg	Leu	Leu	Leu	Leu
305				310				315				320			
Asp	Tyr	Pro	Pro	Asp	Arg	Val	Thr	Leu	Phe	Leu	His	Asn	Asn	Glu	Val
325				330				335							
Phe	His	Glu	Pro	His	Ile	Ala	Asp	Ser	Trp	Pro	Gln	Leu	Gln	Asp	His
340				345				350							

4434

Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro Gly
 355 360 365
 Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu Cys
 370 375 380
 Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu Gln
 385 390 395 400
 Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro Met
 405 410 415
 Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu Ser
 420 425 430
 Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val Gln
 435 440 445
 Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala Tyr
 450 455 460
 Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp Val
 465 470 475 480
 Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser Phe
 485 490 495
 Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe Gly
 500 505 510
 Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro Asp
 515 520 525
 Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr Ile
 530 535 540
 His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Xaa Gly Ile Val Glu Gln
 545 550 555 560
 Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met Cys
 565 570 575
 Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly Gly
 580 585 590
 Arg His Glu Asp Ser Arg Leu Ala Gly Xaa Tyr Glu Asn Val Pro Thr
 595 600 605
 Val Asp Ile His Met Lys Gln Val Gly Tyr Glu Asp Gln Trp Leu Gln
 610 615 620

4435

Leu Leu Arg Thr Tyr Val Gly Pro Met Thr Glu Ser Leu Phe Pro Gly
 625 630 635 640

Tyr His Thr Lys Ala Arg Ala Val Met Asn Phe Val Val Arg Tyr Arg
 645 650 655

Pro Asp Glu Gln Pro Ser Leu Arg Pro His His Asp Ser Ser Thr Phe
 660 665 670

Thr Leu Asn Val Ala Leu Asn His Lys Gly Leu Asp Tyr Glu Gly Gly
 675 680 685

Gly Cys Arg Phe Leu Arg Tyr Asp Cys Val Ile Ser Ser Pro Arg Lys
 690 695 700

Gly Trp Ala Leu Leu His Pro Gly Arg Leu Thr His Tyr His Glu Gly
 705 710 715 720

Leu Pro Thr Thr Trp Gly Thr Arg Tyr Ile Met Val Ser Phe Val Asp
 725 730 735

Pro

<210> 4884

<211> 73

<212> PRT

<213> Homo sapiens

<400> 4884

Glu Thr Thr Lys Glu Tyr His Glu Gly Ile Tyr Ala Pro Val Leu Ala
 1 5 10 15

Ile Ile Cys Leu Arg Arg Asn Leu Leu Asn Lys Ser Phe Tyr Pro Leu
 20 25 30

Thr Phe Thr Phe Ile Arg Pro Tyr Lys Arg Ser Asn Gly Asp Leu Lys
 35 40 45

Phe Phe Ser His Lys Ser Tyr Leu Phe Ser Ile Ser Ala Lys Ser Arg
 50 55 60

Ile Leu Ser Ser Lys Pro Lys Leu Thr
 65 70

<210> 4885

<211> 76

4436

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4885

Arg Lys Lys Pro Ile Tyr Ile Asn Val Xaa Arg Asp Pro Ile Glu Arg
 1 5 10 15

Leu Val Ser Tyr Tyr Tyr Phe Leu Arg Xaa Gly Asp Asp Tyr Arg Pro
 20 25 30

Gly Leu Arg Arg Arg Lys Gln Gly Asp Lys Lys Thr Phe Asp Glu Cys
 35 40 45

Val Ala Glu Gly Gly Ser Asp Cys Ala Pro Glu Lys Leu Trp Leu Gln
 50 55 60

Ile Pro Phe Phe Cys Gly His Ser Ser Glu Cys Trp
 65 70 75

<210> 4886

<211> 94

<212> PRT

<213> Homo sapiens

<400> 4886

Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro
 1 5 10 15

Lys Glu Glu Gly Gly Lys Pro Gln Met Asn Ser Glu Gly Glu Ile Pro
 20 25 30

Ser Leu Pro Ser Gly Ser Gln Ser Ala Lys Pro Val Ser Gln Pro Arg
 35 40 45

Lys Ser Thr Gln Pro Asp Val Cys Ala Ser Pro Gln Glu Lys Pro Leu
 50 55 60

Arg Thr Leu Phe His Gln Pro Glu Glu Glu Ile Glu Asp Gly Gly Leu
 65 70 75 80

4437

Phe Ile Pro Met Glu Asp Lys Thr Met Lys Lys Val Arg Lys
85 90

<210> 4887

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4887

Ile Leu Asn Glu Lys Lys Xaa Leu Xaa Lys Lys Gly Gly Arg Ser Arg
1 5 10 15

Gly Ser Lys Leu Thr Tyr Ala Cys Xaa Arg Arg His Ser Ser Ser Ile
20 25 30

Val Ser Pro
35

<210> 4888

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

4438

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4888

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Thr Arg Tyr
20 25 30

Pro Gln Gly His Ser Asp Thr Thr Val Ala Ile Ser Thr Ser Thr Val
35 40 45

Leu Leu Cys Xaa Leu Ser Ala Val Ser Leu Leu Ala Cys Tyr Xaa Lys
50 55 60

Ser Arg Gln Thr Pro Pro Leu Ala Ser Val Glu Met Glu Ala Met Glu
65 70 75 80

Ala Leu Pro Val Thr Trp Gly Thr Ser Ser Arg Asp Glu Asp Leu Glu
85 90 95

Asn Cys Ser His His Leu
100

<210> 4889

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4889

Leu Ser Gln Ser Gln Leu Asn Arg His Leu Asn Cys Ile Cys Lys Ile
1 5 10 15

Leu Ser Leu Leu Pro Tyr Ser Leu Thr Lys Cys Asn Arg Arg Cys Pro
20 25 30

His Lys Gly Met Asp Ile Gly Leu Gly Lys Asp Phe Arg Asn His Leu
35 40 45

Arg Ile Leu Pro Thr Thr Asn Ser Ile Leu Gln Val Ser Ile Ser Ser
50 55 60

Ile Leu Val Ile His
65

<210> 4890

<211> 75

4439

<212> PRT

<213> Homo sapiens

<400> 4890

Phe Val Ser Glu Gly Asp Phe Pro Ser Tyr Thr Leu Gly Leu Glu Asp

1

5

10

15

Phe Glu Tyr Leu Gly Pro Phe Ser Cys Glu His Gly Leu Phe Pro His

20

25

30

Ser Ser Tyr Leu Leu Thr Arg Gly Ile Leu Gly Arg Asp Leu Arg Ser

35

40

45

Ser Phe Ser Cys Phe Pro Glu Gln Ser Leu Lys Phe Thr Val Asn Lys

50

55

60

Leu Phe Asp His Glu Lys Lys Lys Lys Ser Thr

65

70

75

<210> 4891

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4891

Gly Ala Ala Leu Leu Ile Trp Gly Val Ser Arg Leu Ser Ala Leu Thr

1

5

10

15

Leu Leu Xaa His Pro Xaa Thr Asp Lys Val Arg Leu Gln Arg Arg Val

4440

20							25					30				
Thr	Pro	Met	Cys	Tyr	Ser	Phe	Phe	Xaa	Thr	Ser	Phe	Thr	Gly	Asp	Asn	
35							40					45				
Ala	His	Thr	Val	Gln	Phe	Thr	His	Leu	Lys	Cys	Thr	Ile	Gln	Trp	Val	
50							55					60				
Leu	Val	Tyr	Ser	Trp	Gly	Leu	Cys	Asn	Pro	Xaa	Pro					
65							70					75				

<210> 4892

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4892

Glu	Glu	Gly	Leu	Arg	Asn	Lys	Lys	Ala	Lys	Glu	Pro	Phe	Glu	Glu	Ala
1				5					10					15	
Ser	Cys	Leu	Leu	Gly	Ala	Gly	Val	Cys	Ala	Gly	Val	Val	Leu	Arg	Gly
			20					25					30		
Arg	Lys	Glu	Pro	Xaa	Ser	Pro	Glu	Asp	Pro	Pro	Gly	Gly	Ala	Gly	Leu
		35					40					45			
Lys	Phe	Arg	Trp	Val	Pro	Gly	Gly	Ser	Ala	Leu	Arg	Ser	Thr	Asp	Gly
	50					55					60				
Leu	Arg	Ser	Gln	Cys	Ala	Ala	Arg	Thr	Ser	Arg	Ser	Gly	Gly	Arg	Val
65				70						75					80
Leu	Pro	Thr	Pro	Ala	Leu	Gly	Ser	Glu	Lys	Ala	Ala	Leu	Val	Leu	Phe
			85					90						95	
Leu	Gly	Met	Ser	Ala	Glu	Gly	Ala	Pro	Gly						
		100						105							

<210> 4893

<211> 190

<212> PRT

<213> Homo sapiens

4441

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4893

Arg His Arg Gln Gln Gln Lys Ala His Cys Pro His Pro Leu Thr Leu
 1 5 10 15

Asn Phe Leu Ser Leu Phe Lys Ile Leu Ala Ser Asp Cys Ser Ala Ala
 20 25 30

Xaa Asn Phe Leu Val Pro Ser Trp Gly Xaa Trp Gly Gly Val Tyr Arg
 35 40 45

Leu Phe Ser Ala Ser Ala Leu Leu Ser Gln Gly Phe Glu Pro Leu Arg
 50 55 60

Phe Ser Gly Gln Thr Arg Lys Asn Glu Asn Thr Ala Trp Gly Ala Pro
 65 70 75 80

Thr Ser Arg Arg Leu Cys Gln Leu Thr Ser Gly His Gly Ala Ala Ala
 85 90 95

Gly Ala His Gly Gly Gln Gly Gln Leu His Ile Leu Pro Ser Pro Ser
 100 105 110

His Phe Thr Val Ala Pro Asn Pro Ala Arg Arg Glu Arg Val Ser Ala
 115 120 125

Pro Gln Thr Thr Gly Ser Leu Leu Thr Lys Asn Gly Glu Thr Arg Phe
 130 135 140

His Leu Ser Ala Glu Glu Pro Gln Ala Gly Leu Ser Glu Arg Asp Gly
 145 150 155 160

Ala Gly Gly Arg Leu Trp Ile Ala Ser Gln Ile Lys Leu Cys Ser Leu
 165 170 175

Asn Val Ala Ser Arg Gln Glu Lys Ala Trp Gly Leu Asn Ser
 180 185 190

<210> 4894

4442

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4894

Gly Asp Lys Asn Val Leu Lys Phe Ile Val Met Met Leu Ala Ile Ser
 1 5 10 15

Ile Ser Arg Leu Asn Ala Val Met Val Ala Asn Ser Ile Asn Ile Phe
 20 25 30

Asn Val Val Met Val Ala Asn Ser Met Lys Asn Pro Asn Cys Thr Ile
 35 40 45

Ser Met Ser Glu Ser Met Leu Cys Glu Cys Leu His Lys Gly Phe Ile
 50 55 60

<210> 4895

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4895

Thr Val Pro Arg Pro Arg Pro Asp Phe Ser His Ala Pro Pro Ser Thr
 1 5 10 15

Ser Ala Leu Gly Cys Leu Gly Arg Glu Arg Arg Arg Gly Ala Trp Arg
 20 25 30

Gly Thr Pro Gly Gln Asn Asp Ser Gly Met Ser Arg Glu Arg Lys Glu
 35 40 45

Ala Pro Trp Asp Ala Gly Gly Arg Val Leu Gly Pro Gly Leu Gln Pro
 50 55 60

Arg Thr Gly Ala Thr Ala Gly Pro Ser Pro Asp Arg Pro Arg Ala Gly
 65 70 75 80

Gly Gln Ala Arg Val Arg Cys Ala Ala Arg Pro Arg Ser Leu Thr Thr
 85 90 95

Val Pro Thr His Arg Gly Gly Pro
 100

4443

<210> 4896

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4896

Leu Leu Ile Pro Met Pro Leu Cys Asp Pro Ile Leu Asn Thr Ala Arg
 1 5 10 15

Ala Val Phe Gln Gln His Ser Ser Asn Leu Val Ser Ser Pro Leu Leu
 20 25 30

His Ala Ser Val Ala Phe Pro Val Thr Trp His Gly Thr Arg Pro Gln
 35 40 45

Leu Pro Tyr Ile Pro Ala Asn Ser Tyr Pro Thr Phe Leu Cys Ser His
 50 55 60

Ser Phe Leu Phe Leu Pro His
 65 70

<210> 4897

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4897

Gly Cys Gly Gly Phe Gln Cys Val Glu Trp Lys Gly Asn Cys Arg Ile
 1 5 10 15

Val Ser Ala Pro His Ser Glu Gly Leu Leu Pro Val Pro Pro Arg Pro
 20 25 30

Gly Ala Ser Thr Ala Ser Pro His Ser Thr Gln Met Pro Arg Ser Ser
 35 40 45

Glu Leu Val Tyr Glu Lys Ser Pro Thr Phe Ser Pro Lys Thr Ser Leu
 50 55 60

Leu Ser Leu His Lys Lys Lys Arg Lys Gly Thr Lys Glu Lys His Ser
 65 70 75 80

Val Phe Leu Phe Leu Lys Lys Val Ser Pro Phe Leu Lys Ser Ser Asn
 85 90 95

Glu Thr Leu Ser Gly Asn
 100

4444

<210> 4898

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4898

Pro	Gln	Gln	Xaa	Thr	Ser	Gln	Glu	Val	Glu	Asn	Ser	Lys	Gln	Glu	Lys
1				5					10					15	

Tyr	Gln	Asn	Asn	Tyr	Thr	Gln	Thr	Ser	Glu	Asn	Gln	Arg	Gln	Lys	Glu
		20						25					30		

Asn	Leu	Gln	Arg	Ser	Gln	Arg	Lys	Ser	Asn	Leu	Thr	Tyr	Ser	Lys	Thr
		35					40					45			

Gly	Gln	Glu	Leu	Asn
				50

<210> 4899

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4899

Gly	Asn	Asn	Cys	Arg	Ser	Ile	Glu	Val	Thr	Ala	Lys	Ile	Phe	Tyr	Ser
1				5					10					15	

Asn	Trp	Val	Asn	Pro	Val	Asn	His	Val	Arg	Asn	Ser	Ser	Pro	Arg	Val
		20						25					30		

Ser	Met	Leu	Leu	Leu	Tyr	Phe	Cys	Lys	His	Asn	Pro	Leu	Thr
		35					40					45	

<210> 4900

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

4445

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4900

Leu Leu Phe Asn Leu Pro Ile Glu Leu Leu Gly Phe Lys Lys Tyr Phe
1 5 10 15

Xaa Asn Asp Phe Leu Gly Leu Glu Ser Thr Phe Asn Thr Phe Lys Leu
20 25 30

Val Phe Leu Leu Glu Ile Phe Arg Ile Ser Ser Leu Ile Gly Asn Leu
35 40 45

Tyr Arg Ser Leu Val Arg Phe Val Ala Lys Met Cys His Arg Trp Thr
50 55 60

Gln Ile Ser His Ser Gly Ala Ile Ser Tyr His Ser Gly Gly
65 70 75

<210> 4901

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4901

Cys Leu Xaa Tyr Phe Xaa Met Asp Ile Glu Val Lys Met Ser Phe Ile
1 5 10 15

Cys Ile Tyr Leu Gly Lys Glu Asp Met Leu Leu Lys Gln Gly Gln Met
20 25 30

Tyr Met Ala Asp Ser Gln Cys Thr Ser Pro Gly Tyr Pro Gly Pro Met
35 40 45

<210> 4902

4446

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4902

Arg	Lys	His	Lys	Ala	Ile	Arg	Leu	Ile	Ser	Gly	Glu	Leu	His	Thr	Glu
1				5					10					15	

Gly	Glu	Xaa	Lys	Phe	Leu	Ser	Pro	Trp	Ser	Thr	Pro	Ser	Xaa	Xaa	Ser
			20					25					30		

Glu	Arg	Val	Pro	Phe	Met	Ser	Asn	Thr	Ala	Ser	His
		35					40				

<210> 4903

<211> 42

<212> PRT

<213> Homo sapiens

<400> 4903

Ser	Tyr	His	Ser	Val	Ser	Gly	Phe	Leu	Val	Val	Tyr	Thr	Phe	Thr	Ile
1				5					10					15	

Met	Ala	Lys	Cys	Phe	Lys	Ile	Ile	Gln	Leu	Phe	Lys	Glu	Thr	Tyr	Tyr
			20					25					30		

Ala	Lys	Asp	Thr	Leu	Glu	Met	Leu	Cys	Ile
		35					40		

<210> 4904

<211> 103

<212> PRT

4447

<213> Homo sapiens

<400> 4904

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Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1              5              10              15

Val Arg Ser Val Pro Leu Trp Leu Leu Ser His Leu Lys Asn Asp Pro
          20              25              30

Ser Gly Pro Phe Pro Pro Pro Cys Pro Leu Pro His Thr Ser Arg Phe
          35              40              45

Pro Val Arg Gln Gln Val Gln Arg Leu Gln Asp Leu Ala Leu Leu Ser
 50              55              60

Leu Leu Glu Pro Leu Lys Glu Lys Ala Gly Phe Glu Leu Phe Ala Phe
 65              70              75              80

Glu Ser Trp Arg His Lys Arg Tyr Leu Gly Tyr Arg Ser Arg Arg Arg
          85              90              95

Glu Arg Thr Pro Arg Ser Asn
          100

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<210> 4905

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4905

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Phe Tyr Phe Ser Ser Lys Ser Leu Phe His Thr Cys Lys Ile Leu Gly
 1              5              10              15

Arg Arg Phe Leu Lys Leu Cys Gln Glu Leu Leu Pro Ile Ser Lys Asn
          20              25              30

Ser Leu Leu Cys Ser Lys Thr Thr Ile Ser Leu Arg Asp Cys Leu Lys
          35              40              45

Gly Glu Arg Ala Thr Arg Glu Ile Ile His Ser Ala His Arg Asn Tyr
          50              55              60

Cys Ser Ser Gly Leu Pro Ala Thr Val Phe Arg Cys Trp Val
          65              70              75

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<210> 4906

<211> 219

4448

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4906

Lys Val Asp Lys Gln Leu Phe Pro Pro Ser Tyr Gln Glu Lys Cys Ser
 1 5 10 15

Gly Ser Tyr Ala Thr Pro Ser Ser Glu Asn Val Gln Leu Arg Gln Asn
 20 25 30

Leu Gly Thr Lys Lys Asn Leu Xaa His Val Asn Lys Ile Leu Lys Ala
 35 40 45

Lys Lys Leu Gln Arg Gln Ala Arg Thr Gly Asn Asn Phe Val Lys Arg
 50 55 60

Arg Pro Gly Arg Pro Arg Lys Cys Pro Leu Gln Ala Val Val Ser Met
 65 70 75 80

Gln Ala Phe Gln Ala Ala Gln Phe Val Asn Pro Glu Leu Asn Arg Asp
 85 90 95

Glu Glu Gly Ala Ala Leu His Leu Ser Pro Asp Thr Val Thr Asp Val
 100 105 110

Ile Glu Ala Val Val Gln Ser Val Asn Leu Asn Pro Glu His Lys Lys
 115 120 125

Gly Leu Lys Arg Lys Gly Trp Leu Leu Glu Glu Gln Thr Arg Lys Lys
 130 135 140

Gln Lys Pro Leu Pro Glu Glu Glu Glu Gln Glu Asn Asn Lys Ser Phe
 145 150 155 160

Asn Glu Ala Pro Val Glu Ile Pro Ser Pro Ser Glu Thr Pro Ala Lys
 165 170 175

Pro Ser Glu Pro Glu Ser Thr Leu Gln Pro Val Leu Ser Leu Ile Pro
 180 185 190

Arg Glu Lys Lys Pro Pro Arg Pro Pro Lys Lys Lys Tyr Gln Lys Ala
 195 200 205

Gly Leu Tyr Ser Asp Val Tyr Lys Thr Thr Glu
 210 215

4449

<210> 4907

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4907

Ser His Cys Thr Val Asn Ser Lys Lys Ile Glu Glu Leu Phe Trp His
 1 5 10 15

Leu Lys Thr Ile Thr Gln Phe Ser Arg Glu Val Thr Asp Lys Arg Asp
 20 25 30

His Thr Asp Cys Phe Val Val Leu Val Leu Ser Tyr Ser Leu Met Gln
 35 40 45

Ile Arg Thr Phe Thr Ser Ile Cys Val Gly Pro Thr Leu Pro Gly Gln
 50 55 60

Ile Gln Leu Gln Ser Pro Cys Arg Tyr Glu Phe Ser Arg Asn Glu Pro
 65 70 75 80

Met Phe Ser Ala Arg Ile Asn Trp Ser Tyr Thr Ile Tyr Lys Asn Glu
 85 90 95

Tyr Cys Ile Leu Tyr Leu
 100

<210> 4908

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4908

Gly Xaa Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15

Pro Arg Val Arg Gly Ser Pro Leu Leu Cys Ala Leu Ser Ser Val Met
 20 25 30

Arg Arg Glu Pro Phe Ala Val Cys Ser Val Gln Cys His Glu Thr Gly
 35 40 45

4450

Ala Leu Cys Cys Val Leu Cys Pro Val Ser
 50 55

<210> 4909

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4909

Ala Arg Pro Ser Leu Arg Thr Cys Tyr Pro Arg Gly Asn Ile Thr Met
 1 5 10 15

Ser Glu Ala Pro Arg Ala Glu Thr Phe Val Phe Leu Asp Leu Glu Ala
 20 25 30

Thr Gly Leu Pro Ser Val Glu Pro Glu Ile Ala Glu Leu Ser Leu Phe
 35 40 45

Ala Val His Arg Ser Ser Leu Glu Asn Pro Glu His Asp Glu Ser Gly

4451

50					55					60						
Ala	Leu	Xaa	Leu	Pro	Arg	Val	Leu	Asp	Lys	Leu	Thr	Leu	Cys	Met	Cys	
65					70					75					80	
Pro	Glu	Arg	Pro	Phe	Thr	Ala	Lys	Ala	Ser	Glu	Ile	Thr	Gly	Leu	Ser	
85					90					95						
Ser	Glu	Gly	Leu	Ala	Arg	Cys	Arg	Lys	Ala	Gly	Phe	Asp	Gly	Ala	Xaa	
100					105					110						
Val	Arg	Thr	Leu	Gln	Ala	Phe	Leu	Ser	Arg	Gln	Ala	Gly	Pro	Ile	Cys	
115					120					125						
Leu	Val	Ala	His	Asn	Gly	Phe	Asp	Tyr	Asp	Phe	Pro	Leu	Leu	Cys	Ala	
130					135					140						
Glu	Leu	Arg	Xaa	Leu	Gly	Ala	Arg	Leu	Pro	Arg	Asp	Thr	Val	Cys	Leu	
145					150					155					160	
Asp	Thr	Leu	Pro	Ala	Leu	Arg	Gly	Leu	Asp	Arg	Ala	His	Lys	Pro	Arg	
165					170					175						
Xaa	Pro	Gly	Pro	Gly	Pro	Xaa	Arg	Val	Thr	Ser	Leu	Gly	Lys	Leu	Phe	
180					185					190						
Pro	Pro	Xaa	Leu	Ser	Gly	Lys	Thr									
195					200											

<210> 4910

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4910

[illegible]

4452

<210> 4911

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4911

Lys	Gln	Lys	His	Ile	Tyr	Phe	Lys	Lys	Tyr	Thr	Ser	Xaa	Tyr	Glu	Ile
1				5					10					15	

Phe	Ser	Phe	Glu	Cys	Met	Leu	Lys	Trp	Xaa	Xaa	Ser	Arg	Ile	Ser	Tyr
			20					25					30		

Asn	Thr	Gly	Tyr	Leu	Glu	Thr	Arg	Tyr
		35					40	

<210> 4912

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4912

Arg	Glu	Lys	Ser	Thr	Phe	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Ala	Phe	Ser
1					5				10					15	

Tyr	Leu	Ser	Asn	Leu	Asn	Gln	His	Gln	Lys	Thr	His	Thr	Gln	Glu	Lys
			20					25					30		

4453

Ala Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile Arg Ser Ser Ser
 35 40 45
 Leu Ala Lys His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys
 50 55 60
 Xaa Glu Cys Gly Lys Thr Phe Ser Tyr Gly Ser Ser Leu Ile Gln His
 65 70 75 80
 Arg Lys Ile His Thr Gly Glu Arg Pro Tyr Lys Cys Asn Glu Cys Gly
 85 90 95
 Arg Ala Phe Asn Gln Asn Ile His Leu Thr Gln His Lys Arg Ile His
 100 105 110
 Thr Gly Ala Lys Pro Tyr Glu Cys Ala Glu Cys Gly Lys Ala Phe Arg
 115 120 125
 His Cys Ser Ser Leu Ala Gln His Gln Lys Thr His Thr Glu Glu Lys
 130 135 140
 Pro Tyr Gln Cys Asn Lys Cys Glu Lys Thr Phe Ser Gln Ser Ser His
 145 150 155 160
 Leu Thr Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys
 165 170 175
 Asn Glu Cys Asp Lys Ala Phe Ser Arg Ser Thr His Leu Thr Glu His
 180 185 190
 Gln Asn Thr His Thr Gly Glu Lys Pro Tyr Asn Cys Asn Glu Cys Arg
 195 200 205
 Lys Thr Phe Ser Gln Ser Thr Tyr Leu Ile Gln His Gln Arg Ile His
 210 215 220
 Ser Gly Glu Lys Pro Phe Gly Cys Asn Asp Cys Gly Lys Ser Phe Arg
 225 230 235 240
 Tyr Arg Ser Ala Leu Asn Lys His Gln Arg Leu His Pro Gly Ile
 245 250 255

<210> 4913

<211> 118

<212> PRT

<213> Homo sapiens

<220>

4454

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4913

Leu Leu Glu Ala Gln Ala Gly Glu Gly Gly Arg Val Ser Arg Arg Ala
 1 5 10 15

Pro Leu Ser Leu Thr Gln Arg Ser Cys Val Phe Leu Val Lys Pro Ser
 20 25 30

His Ala Arg Gly Pro Ile Ala Ser Ser Pro Pro Ser Leu Pro Thr Asn
 35 40 45

Ile Pro Ser Pro Asp Pro Asn Ser Pro Pro His Tyr Pro Ala Leu Asp
 50 55 60

Leu Gly Asn Val Phe Leu Tyr Phe Asn Ile Ala Gln Gly Lys Asn Thr
 65 70 75 80

Tyr Ile Leu Arg Asp Leu Gly Trp Gly Lys Gln Lys Pro Cys Gly Val
 85 90 95

Xaa Lys Thr Lys Ala Tyr Phe Tyr Lys Cys Leu Met Phe Ser Pro Pro
 100 105 110

Gly Cys Ser Glu Thr Pro
 115

<210> 4914

<211> 186

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

4455

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4914

Arg Ile Ser Gln Cys Leu Gly Arg Gly Glu Val Gln Glu Cys Val Leu
 1 5 10 15

Arg Leu Asn His Ile Ile Leu Gln Arg Xaa Trp Ala Ala Arg His Ile
 20 25 30

Val Asn Arg Ile Asn Ala Phe Lys Pro Thr Ala Asp Arg Pro Phe Val
 35 40 45

Leu Gly Leu Pro Thr Gly Gly Thr Pro Met Thr Thr Tyr Lys Ala Leu
 50 55 60

Val Glu Met His Lys Ala Gly Gln Val Ser Phe Lys His Val Val Thr
 65 70 75 80

Phe Asn Met Asp Glu Tyr Val Gly Leu Pro Lys Glu His Pro Glu Ser
 85 90 95

Tyr Tyr Ser Phe Met His Arg Asn Phe Phe Asp His Val Asp Ile Pro
 100 105 110

Ala Glu Asn Ile Asn Leu Leu Asn Gly Asn Ala Pro Asp Ile Asp Ala
 115 120 125

Glu Cys Arg Gln Tyr Glu Xaa Lys Ile Arg Ser Tyr Gly Lys Ile His
 130 135 140

Leu Phe Met Gly Gly Val Xaa Asn Asp Gly His Ile Ala Phe Asn Glu
 145 150 155 160

Pro Ala Ser Ser Leu Ala Ser Arg Thr Arg Ile Lys Thr Leu Thr His
 165 170 175

Xaa His Ser Arg Arg Lys Leu Ser Phe Leu
 180 185

<210> 4915

<211> 141

<212> PRT

<213> Homo sapiens

<400> 4915

Gly Ile Leu Phe Ile Tyr Leu Asp Gly Ala Phe Asp Leu Cys Val Thr

4456

1 5 10 15
 Ser Val Ser Lys Gly Gly Phe Glu Arg Glu Glu Thr Ala Thr Phe Ala
 20 25 30
 Leu Leu Tyr Arg Leu Arg Asn Ile Leu Phe Glu Arg Asn Arg Arg Val
 35 40 45
 Met Asp Val Ile Ser Arg Ser Gln Leu Tyr Leu Asp Asp Leu Phe Ser
 50 55 60
 Asp Tyr Tyr Asp Lys Pro Leu Ser Met Thr Asp Ile Ser Leu Lys Glu
 65 70 75 80
 Gly Thr His Ile Arg Val Asn Leu Leu Asn His Asn Ile Pro Lys Gly
 85 90 95
 Pro Cys Ile Leu Cys Gly Met Gly Asn Phe Lys Arg Glu Thr Val Tyr
 100 105 110
 Gly Cys Phe Gln Cys Ser Val Asp Gly Gln Lys Tyr Val Arg Leu His
 115 120 125
 Ala Val Pro Cys Phe Asp Ile Trp His Lys Arg Met Lys
 130 135 140

<210> 4916

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4916

Asn Ser Ala Arg Val Cys Ile Leu Ser Arg Asp Arg Val Ser Pro Cys
 1 5 10 15
 Trp Leu Gly Trp Cys Leu Ser Leu Asp Leu Val Ile His Pro Pro Gln
 20 25 30
 Pro Pro Arg Val Leu Gly Leu Gln Val Arg Ala Thr Ala Pro Gly Trp
 35 40 45
 Phe Ser
 50

<210> 4917

<211> 212

<212> PRT

4457

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4917

Glu Tyr Cys Asn Thr Val Gln Leu Asp Ser Gly Ile Asp Tyr Arg Lys

1 5 10 15

Arg Glu Leu Pro Ala Ala Gly Lys Leu Tyr Tyr Leu Thr Ser Glu Ala

20 25 30

Asp Val Glu Ala Val Met Asp Lys Leu Phe Asp Glu Leu Ala Gln Lys

35 40 45

Gln Asn Asp Leu Thr Arg Pro Arg Ile Leu Lys Val Gln Gly Arg Glu

50 55 60

Leu Arg Leu Asn Lys Ala Cys Gly Thr Val Ala Asp Cys Thr Phe Glu

65 70 75 80

Glu Leu Cys Glu Arg Pro Leu Gly Ala Ser Asp Tyr Leu Glu Leu Xaa

85 90 95

Lys Asn Phe Asp Thr Ile Phe Leu Arg Xaa Ile Pro Gln Phe Thr Leu

100 105 110

Ala Asn Arg Thr Gln Gly Arg Arg Phe Ile Thr Leu Ile Asp Asn Phe

115 120 125

Tyr Asp Leu Lys Val Arg Ile Ile Cys Ser Ala Ser Thr Pro Ile Ser

130 135 140

Ser Leu Phe Leu His Gln His His Asp Ser Glu Leu Glu Gln Ser Arg

4458

145 150 155 160
 Ile Leu Met Asp Xaa Leu Gly Leu Xaa Gln Asp Ser Ala Glu Gly Leu
 165 170 175
 Ser Met Phe Thr Gly Glu Glu Glu Ile Phe Ala Phe Gln Arg Thr Ile
 180 185 190
 Ser Arg Leu Thr Glu Met Gln Thr Glu Gln Tyr Trp Asn Glu Gly Asp
 195 200 205
 Arg Thr Lys Lys
 210

<210> 4918

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4918

Met Gln Asn Ile Glu Arg Ile Phe Met Ile Leu Pro Asn Cys Lys His
 1 5 10 15

Ser Ser Gln Ser Leu Ile Ala Leu Glu Cys Phe Leu Asp Glu Gln Val
 20 25 30

Thr Ser Cys Lys Pro Thr Ser Glu Val Arg Lys Met Phe Ser His Val
 35 40 45

Ser Cys Ser Cys Gln Ile Phe Lys Asn Pro Pro Ser Phe Asn His Pro
 50 55 60

Val Gly Lys Met Cys Tyr Lys Thr Leu Pro Pro Gly Val Phe Trp Glu
 65 70 75 80

Glu Cys Leu Lys Lys Lys Lys Lys Thr Ala Xaa Arg Lys Tyr Phe Gln
 85 90 95

Ile Leu Tyr

<210> 4919

4459

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4919

Tyr	Leu	Asp	Ala	Glu	Lys	Met	Gly	Gln	Lys	Ala	Ser	Gln	Gln	Leu	Ala
1				5				10						15	

Leu	Lys	Asp	Ser	Lys	Glu	Val	Pro	Val	Val	Cys	Glu	Val	Val	Ser	Glu
			20					25					30		

Ala	Ile	Val	His	Ala	Ala	Gln	Lys	Leu	Lys	Glu	Tyr	Leu	Gly	Phe	Glu
		35				40						45			

Tyr	Pro	Pro	Ser	Lys	Leu	Cys	Pro	Ala	Ala	Asn	Thr	Leu	Asn	Glu	Ile
	50					55					60				

Phe	Leu	Ile	His	Phe	Ile	Thr	Phe	Cys	Gln	Glu	Lys	Gly	Val	Asp	Glu
65					70					75					80

Trp	Leu	Thr	Thr	Thr	Lys	Met	Thr	Lys	His	Gln	Ala	Phe	Leu	Phe	Gly
				85					90					95	

Ala	Asp	Trp	Ile	Trp	Thr	Phe	Trp	Gly	Ser	Asp	Lys	Gln	Ile	Lys	Leu
		100						105					110		

Gln	Leu	Ala	Val	Gln	Thr	Leu	Gln	Met	Ser	Ser	Pro	Pro	Pro	Val	Glu
		115					120					125			

Ser	Lys	Pro	Cys	Asp	Leu	Ser	Asn	Pro	Glu	Ser	Xaa	Val	Xaa	Glu	Ser
	130						135					140			

4460

Ser Trp Lys Lys Ser Arg Phe Asp Lys Leu Glu Glu Phe Cys Asn Leu
 145 150 155 160

Ile Gly Glu Asp Cys Leu Gly Leu Phe Ile Ile Phe Gly Met Pro Gly
 165 170 175

Lys Pro Lys Asp Ile Arg Gly Val Val Leu Asp Ser Val Lys Ser Gln
 180 185 190

Met Val Arg Ser His Leu Pro Gly Gly Lys Ala Val Ala Xaa Phe Val
 195 200 205

Leu Glu Thr Glu Asp Cys Val Phe Ile Lys Glu Leu Leu Lys Ile Xaa
 210 215 220

<210> 4920

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4920

Thr Trp Lys Leu Phe Tyr Gln Ile Thr Val Leu His His Pro Pro Val
 1 5 10 15

Cys Leu Val Ser Leu Ile Asn Gly Arg Gly Ile Ser Lys Leu Ser Phe
 20 25 30

Leu Thr Pro Phe Glu Tyr Ser Val Phe Ala Ile Ile Asp Val Ala Pro
 35 40 45

His Asn Ser Pro Thr Phe Ile Leu Lys Asn Gln Asn Leu Lys Asn Cys
 50 55 60

Ser Ser Cys Gln Ser Val Met Thr His Leu Arg Xaa Ile Leu Phe Leu
 65 70 75 80

Asp Val

4461

<210> 4921

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4921

Lys Ser Ser Leu Cys Cys Ser His Phe Asn Ser Cys His Met Phe Cys
1 5 10 15

Lys Gln Phe Phe Glu Phe Ile Ile Phe Gln Ser Cys Leu Tyr Tyr Ile
20 25 30

Leu Pro His Lys Asn Phe Lys Phe Val
35 40

<210> 4922

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4922

Glu Tyr Phe Gln Asn Pro Ser Leu Ser Lys Leu Phe Cys Gly Lys Ser
1 5 10 15

Ser Ile Tyr Phe Ile Asn Val Met Cys Leu Ile Leu Asp Leu Phe Trp
20 25 30

Glu Lys Leu Phe Lys Leu Gly Pro Phe Lys Leu Ile Leu Ser Ser Leu
35 40 45

Glu Gly Arg Ser Tyr Leu Ala Asn Glu Ser
50 55

<210> 4923

<211> 93

<212> PRT

<213> Homo sapiens

<400> 4923

Phe Phe Glu Gln Ala Met Val Asp Ser Gly Ser Tyr Arg Asn Ser Ile
1 5 10 15

Asp His Thr Val Val Leu Arg Glu Lys Leu Pro Ile Arg Ser Asn Ile
20 25 30

Phe Pro Leu Met Leu Glu Thr Val Asp Gly His Pro Leu Ile Asn Gly

4462

35 40 45
 Pro Ile Thr Lys Glu Thr Ser Pro Val Gln Val Gln Ile Gly Asn His
 50 55 60
 Val Glu Glu Leu Gln Phe Asp Ile Ile His Ala Pro Arg Tyr Pro Leu
 65 70 75 80
 Ile Ile Gly Ile His Trp Leu Glu Thr His Asp Gln Thr
 85 90

<210> 4924

<211> 43

<212> PRT

<213> Homo sapiens

<400> 4924

Lys Ala Asp Thr Gly Ala Ile Lys Asn Pro Gly Asp Gly Gly Cys Ser
 1 5 10 15
 Glu Leu Arg Ser Arg His Cys Pro Pro Ala Trp Ala Thr Arg Val Lys
 20 25 30
 Leu Cys Leu Lys Lys Gln Thr Asn Lys Cys Ile
 35 40

<210> 4925

<211> 110

<212> PRT

<213> Homo sapiens

<400> 4925

Trp His Pro Leu Ser Glu Ser Gln Ser Ser Leu Arg His Cys Tyr Lys
 1 5 10 15
 Arg Thr Leu Arg Lys Ile Trp Pro Tyr Glu Pro Ser Gln Pro Gln Ala
 20 25 30
 Lys Arg Met Thr Met Cys Val Ser Ala Ala His Gly Gln Phe Val Ser
 35 40 45
 His Cys Phe Gly Lys Pro Cys Val Pro Asn Gln Gly Arg Val Phe Gln
 50 55 60
 Gly Lys Val Asn Phe Pro Lys Phe Ile Lys Ile Glu Leu Gly Lys Pro
 65 70 75 80

4463

Ser Ile Leu Asn Leu Phe Gln Ser Ser Gly His His Ser Tyr Phe Phe
 85 90 95

Cys His Val Lys Glu Lys Phe Gln Ala Cys Ile Leu Ser Cys
 100 105 110

<210> 4926

<211> 92

<212> PRT

<213> Homo sapiens

<400> 4926

Ser Pro Leu Arg Lys Ser Ser Gly Met Phe Ser Ile Ala Val Ser Phe
 1 5 10 15

Pro Pro Lys Ile Thr Trp Leu Gly Ser Tyr Trp Ser Ser Gly Asn Leu
 20 25 30

Ile Pro His Arg Asn Trp Arg Lys Gly Asn Ala Ser Arg Glu Glu Gln
 35 40 45

Leu Tyr Phe Cys Leu Ser Asn Lys Pro Thr Asn Arg Phe Trp Tyr Glu
 50 55 60

Leu Trp Arg His Lys Glu Asn Glu Cys Met Tyr Ser Lys Cys Thr Ser
 65 70 75 80

Phe Phe Thr Leu Ser Trp Gln Lys Met Gln His Phe
 85 90

<210> 4927

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4927

Xaa Leu Glu His Ile Pro Asn Phe Ser Leu Asp Asp Met Val Lys Leu

4464

1	5	10	15
Val Glu Val Pro Asn Asp Gly Gly Pro Leu Gly Ile His Val Val Pro	20	25	30
Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly Leu Leu Val Lys Arg Leu	35	40	45
Glu Lys Gly Gly Lys Ala Glu His Glu Asn Leu Phe Arg Glu Asn Xaa	50	55	60
Cys Ile Val Arg Ile Asn Asp Gly Asp Leu Arg Asn Arg Arg Phe Glu	65	70	75
Gln Ala Gln His Met Phe Arg Gln Ala Met Arg Thr Pro Ile Ile Trp	85	90	95
Phe His Val Val Pro Ala Ala Asn Lys Glu Gln Tyr Glu Gln Leu Ser	100	105	110
Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser Arg Phe Ser Pro Asp Ser	115	120	125
Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser Ala Gly Leu His Thr Val	130	135	140
Gln Arg Ala Pro Arg Leu Asn His Pro Pro Glu Gln Ile Asp Ser His	145	150	155
Ser Arg Leu Pro His Ser Ala His Pro Ser Gly Lys Pro Pro Ser Ala	165	170	175
Pro Ala Ser Ala Pro Gln Asn Val Phe Ser Thr Thr Val Ser Ser Gly	180	185	190
Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu Asn Ile Gln Leu Lys Lys	195	200	205
Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr Ser Arg Asp Val Thr Ile	210	215	220
Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn Ile Leu Pro Arg Gly Ala	225	230	235
Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly Asp Arg Leu Ile Glu Val	245	250	255
Asn Gly Val Gly Leu Val Gly Lys Ser Gln Glu Glu Val Val Ser Leu	260	265	270
Leu			

4465

<210> 4928

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4928

Asp	Arg	Xaa	Met	Lys	Glu	Glu	Val	Lys	Gly	Ile	Pro	Val	Arg	Val	Ala
1				5					10					15	

Leu	Arg	Cys	Arg	Pro	Leu	Val	Pro	Lys	Glu	Ile	Ser	Glu	Gly	Cys	Gln
			20					25					30		

Met	Cys	Leu	Ser	Phe	Val	Pro	Gly	Glu	Pro	Gln	Val	Val	Val	Gly	Thr
		35					40					45			

Asp	Lys	Ser	Phe	Thr	Tyr	Asp	Phe	Val	Phe	Asp	Pro	Ser	Thr	Glu	Gln
	50					55					60				

Glu	Glu	Val	Phe	Asn	Thr	Ala	Val	Ala	Pro	Leu	Ile	Lys	Gly	Val	Phe
65					70					75					80

Lys	Gly	Tyr	Asn	Ala	Thr	Val	Leu	Ala	Tyr	Gly	Gln	Thr	Gly	Ser	Gly
				85					90					95	

Lys	Thr	Tyr	Ser	Met	Gly	Gly	Ala	Tyr	Thr	Ala	Glu	Gln	Glu	Asn	Glu
			100					105					110		

Pro	Thr	Val	Gly	Val	Ile	Pro	Arg	Val	Ile	Gln	Leu	Leu	Phe	Lys	Glu
		115						120					125		

Ile	Asp	Lys	Lys	Ser	Asp	Phe	Glu	Phe	Thr	Leu	Lys	Val	Ser	Tyr	Leu
	130					135					140				

Glu	Ile	Tyr	Asn	Glu	Glu	Ile	Leu	Asp	Leu	Leu	Cys	Pro	Ser	Arg	Glu
145					150				155						160

<210> 4929

4466

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4929

Pro	Arg	Leu	Leu	Arg	Leu	Pro	Arg	Ser	Val	Val	Val	Met	Asp	Ser	Pro
1				5					10					15	

Trp	Asp	Glu	Leu	Ala	Leu	Ala	Phe	Ser	Arg	Thr	Ser	Met	Phe	Pro	Phe
		20						25					30		

Phe	Asp	Ile	Ala	His	Tyr	Leu	Val	Ser	Val	Met	Ala	Val	Lys	Arg	Gln
	35						40					45			

Pro	Gly	Ala	Ala	Ala	Leu	Ala	Trp	Lys	Asn	Pro	Ile	Ser	Ser	Trp	Phe
	50					55					60				

Thr	Ala	Met	Leu	His	Cys	Phe	Gly	Gly	Gly	Ile	Leu	Ser	Cys	Leu	Leu
65					70					75					80

Leu	Ala	Glu	Pro	Pro	Leu	Lys	Phe	Leu	Ala	Asn	His	Thr	Asn	Ile	Leu
				85					90					95	

Leu	Ala	Ser	Ser	Ile	Trp	Tyr	Ile	Thr	Phe	Phe	Cys	Pro	His	Asp	Leu
		100						105					110		

Val	Ser	Gln	Gly	Tyr	Ser	Tyr	Leu	Pro	Val	Gln	Leu	Leu	Ala	Ser	Gly
		115					120					125			

Met	Lys	Glu	Val	Thr	Arg	Thr	Trp	Lys	Ile	Val	Gly	Gly	Val	Thr	His
	130					135					140				

Ala	Asn	Ser	Tyr	Tyr	Lys	Asn	Gly	Trp	Ile	Val	Met	Ile	Ala	Ile	Gly
145					150					155					160

Trp	Ala	Arg	Gly	Ala	Gly	Gly	Thr	Ile	Ile	Thr	Asn	Phe	Glu	Arg	Leu
			165						170					175	

Val	Lys	Gly	Asp	Trp	Lys	Pro	Glu	Gly	Asp	Glu	Trp	Leu	Lys	Met	Ser
			180					185					190		

4467

Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser Val Ile Phe Thr Phe Gln
 195 200 205

Xaa Thr Gln Xaa Leu Ala Ile Ser Lys His Asn Leu Met Phe Leu Tyr
 210 215 220

Thr Ile Phe Ile Val Ala Thr Lys Ile Thr Met Met Thr Thr Gln Thr
 225 230 235 240

Ser Thr Met Thr Phe Ala Pro Phe Glu Asp Thr Leu Ser Trp Met Leu
 245 250 255

Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys Glu Lys Lys Ser Glu Ala
 260 265 270

Lys Ser Pro Ser Asn Gly Val Gly Ser Leu Ala Ser Lys Pro Val Asp
 275 280 285

Val Ala Ser Asp Asn Val Lys Lys Lys His Thr Lys Lys Asn Glu
 290 295 300

<210> 4930

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4930

Val Met Val Ala Glu Thr Ser Ser Leu Tyr Phe Gly Ala Lys Thr Lys
 1 5 10 15

Arg Gln His Lys Arg Lys Ser Ile Leu Ile Glu Tyr Phe Val Glu Gln
 20 25 30

Arg Arg Leu Asp Lys Asn Cys Lys Pro Thr Asp Ser Ala Asn Lys Glu
 35 40 45

Arg Asn Val Leu Ala Ile Arg His Val Ser Ser Glu Ser Lys Ser Asn
 50 55 60

Asn Cys Arg Leu Gln Lys Lys Lys Val Phe Lys Asn Phe Ile Lys Thr
 65 70 75 80

Gly His

<210> 4931

<211> 121

4468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4931

Glu Gly Leu Arg Asp Gly Arg Leu Ser Arg Ile Pro Phe Leu Ser Thr
 1 5 10 15

Arg Ala Leu Leu Glu Pro Leu Ser Lys Gln Trp Gln Gly Thr Glu Arg
 20 25 30

Ser Gln Gln Glu Ser Gly Arg Gly Leu Ile Ile Thr Lys Lys Thr His
 35 40 45

Tyr Ala Arg Asn Arg Leu Cys Ala Pro Val Pro Asp Thr Trp Gln Lys
 50 55 60

Cys Ser Ser Val Thr His Val Cys Glu Xaa Ile Ala Gly Ser Thr Pro
 65 70 75 80

Ser Ala Trp Pro Ala Gly Ala Ser Ala Ala Asp Pro Met Leu Ser Gly
 85 90 95

Gln Trp Gly Ala Ala Pro Gly Arg Leu Phe Trp Gly Arg Leu Ser Tyr
 100 105 110

Pro Trp Ile Val Tyr Thr Leu Leu Cys
 115 120

<210> 4932

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4932

Asp Lys Ser Glu Asn Val Lys Leu Ile Asn Pro Leu Leu Val Ser Lys
 1 5 10 15

Gln Thr Thr Cys Leu Arg Lys Leu Leu Asn Phe His Val Leu Leu Pro
 20 25 30

Asp Ser Ser Leu Ile Lys Arg Lys Lys Lys Asn Pro Ala Gln Ala Trp
 35 40 45

Trp Leu Thr Pro Trp His Leu Glu Gly Pro Arg Trp Glu Pro

4469

50

55

60

<210> 4933

<211> 282

<212> PRT

<213> Homo sapiens

<400> 4933

Asn Tyr Ser Leu Leu Arg Glu Arg Val Glu Met Val Gly Ile Leu Pro

1

5

10

15

Leu Cys Cys Ser Gly Cys Val Pro Ser Leu Cys Cys Ser Ser Tyr Val

20

25

30

Pro Ser Val Ala Pro Thr Ala Ala His Ser Val Arg Val Pro His Ser

35

40

45

Ala Gly His Cys Gly Gln Arg Val Leu Ala Cys Ser Leu Pro Gln Val

50

55

60

Phe Leu Lys Pro Trp Ile Phe Val Glu His Phe Ser Ser Trp Leu Ser

65

70

75

80

Leu Glu Leu Phe Ser Phe Leu Arg Tyr Leu Gly Thr Leu Leu Cys Ala

85

90

95

Cys Gly His Arg Leu Arg Glu Gly Leu Leu Leu Pro Cys Leu Leu Gly

100

105

110

Val Gly Ser Trp Leu Leu Phe Asn Asn Trp Thr Gly Gly Ser Trp Phe

115

120

125

Ser Leu His Leu Gln Gln Val Ser Leu Ser Gln Gly Ser His Val Ala

130

135

140

Ala Phe Leu Pro Glu Ala Ile Gly Pro Gly Val Pro Val Pro Val Ser

145

150

155

160

Gly Glu Ser Thr Ser Ala Gln Gln Ser His Ala Gly Trp Gln Leu Ser

165

170

175

Ala Glu Ala Asp Ala Cys Pro Ser Val Leu Tyr Ser Glu Val Leu Glu

180

185

190

Trp Asn Lys Asn Ile Asn Thr Tyr Thr Ser Phe His Asp Phe Cys Leu

195

200

205

Ile Leu Gly Ile Phe Leu Phe Cys Phe Val Leu Ala Val Ile Gly Leu

210

215

220

4470

Pro Tyr Ile Lys Pro Gly Leu Ser Leu Ser Val Ala Leu Leu Cys Lys
 225 230 235 240

Ala Ser Tyr Tyr Ser Leu Val Trp Phe Ser Arg Thr Val Arg Ser Thr
 245 250 255

Pro Gly Ala Val Cys Phe Leu Arg Leu Pro Gln His Lys Val Pro Tyr
 260 265 270

His Cys Gln Pro Ser Ser Pro Asp Pro Lys
 275 280

<210> 4934

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4934

Cys His Leu Asn Ser Ile His Trp Pro Ser Phe Tyr Asn Arg Arg Asp
 1 5 10 15

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro
 20 25 30

Pro Phe Ala Ala Gly Val Ile Ala Xaa Lys Pro Ala Pro Ile Ala Leu
 35 40 45

Xaa Asn Ser Cys Xaa Ala
 50

<210> 4935

4471

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4935

Ile	Gln	Arg	Leu	Ser	Leu	Val	Arg	Ser	Leu	Cys	Glu	Ser	Glu	Glu	Gln
1				5					10					15	

Arg	Leu	Leu	Glu	Gln	Val	His	Gly	Xaa	Glu	Glu	Arg	Ala	His	Gln	Ser
			20					25					30		

Ile	Leu	Thr	Gln	Arg	Val	His	Trp	Ala	Glu	Ala	Leu	Gln	Lys	Leu	Asp
		35					40					45			

Thr	Ile	Arg	Thr	Gly	Leu	Val	Gly	Met	Leu	Thr	His	Leu	Asp	Asp	Leu
	50					55					60				

Gln	Leu	Ile	Gln	Lys	Glu	Gln	Glu	Ile	Phe	Glu	Arg	Thr	Glu	Glu	Ala
65					70					75					80

Glu	Gly	Ile	Leu	Asp	Pro	Gln	Glu	Ser	Glu	Met	Leu	Asn	Phe	Asn	Glu
				85						90				95	

Lys	Cys	Thr	Arg	Ser	Pro	Leu	Leu	Thr	Gln	Leu	Trp	Ala	Thr	Ala	Val
			100					105					110		

Leu	Gly	Ser	Leu	Ser	Gly	Thr	Glu	Asp	Ile	Arg	Ile	Asp	Glu	Arg	Thr
		115					120					125			

Val	Ser	Pro	Phe	Leu	Gln	Leu	Ser	Asp	Asp	Arg	Lys	Thr	Leu	Thr	Phe
		130				135					140				

Ser	Thr	Lys	Lys	Ser	Lys	Ala	Cys	Ala	Asp	Gly	Pro	Glu	Arg	Phe	Asp
145					150					155					160

His	Trp	Pro	Asn	Ala	Leu	Ala	Ala	Thr	Ser	Phe	Gln	Asn	Gly	Leu	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4472

	165		170		175
Ala Trp Met Val Asn Val Gln Asn Ser Cys Ala Tyr Lys Val Gly Val					
	180		185		190
Ala Ser Gly His Leu Pro Arg Lys Xaa Ser Gly Ser Asp Cys Arg Leu					
	195		200		205
Gly His Asn Ala Phe Ser Trp Val Phe Ser Arg Tyr Asp Gln Glu Phe					
	210		215		220
Arg Phe Ser His Asn Gly Gln His Glu Pro Leu Gly Leu Leu Arg Gly					
	225		230		235
Pro Xaa Gln Leu Gly Val Val Leu Asp Leu Gln Val Gln Glu Leu Leu					
	245		250		255
Phe Tyr Glu Pro Ala Ser Gly Thr Val Leu Cys Ala His His Val Ser					
	260		265		270
Phe Pro Gly Pro Leu Phe Pro Val Phe Ala Val Ala Asp Gln Thr Ile					
	275		280		285
Ser Ile Val Arg					
	290				

<210> 4936

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4936

Asn Ala Tyr Gln Thr Ala Ser His Ala Ser Arg Lys Ile Phe Cys Glu
1 5 10 15

Arg Lys Ser Pro Ile Asp Val Ala Thr Leu Leu Leu Ser Tyr Phe Lys
20 25 30

Lys Leu Leu Gln Xaa Pro Xaa Pro Ser Ala Thr Thr Thr Leu Leu Ser

4473

35

40

45

Gln Gln Pro Ser Arg

50

<210> 4937

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4937

His Val Arg Glu Thr His Val Ala Gly Glu Val Gly Glu Arg Lys Val

1

5

10

15

Gly Val Asn Thr Leu Trp Gly Ser Phe Glu Ile Ser Asn Val Arg Leu

20

25

30

Ala Arg Val Met Leu Thr Gln Phe Ala Glu Gly Arg Leu Glu Asp Gln

35

40

45

4474

Leu Asp Lys Tyr Asp His Trp Ala Asp Arg Phe Glu Asp Leu Pro Leu
 50 55 60
 Tyr Phe Met Thr Phe His Gly Gln Gln Ser Ile Arg Thr Val Ile Asp
 65 70 75 80
 Thr Met Gln His Ala Val Tyr Val Tyr Asp Ile Cys His Val Ile Ile
 85 90 95
 Asp Asn Leu Gln Phe Met Met Gly His Glu Gln Leu Ser Thr Asp Arg
 100 105 110
 Ile Ala Ala Gln Asp Tyr Ile Ile Gly Val Phe Arg Lys Phe Ala Thr
 115 120 125
 Asp Asn Asn Cys His Val Thr Leu Val Ile His Pro Arg Lys Glu Asp
 130 135 140
 Asp Asp Lys Glu Leu Gln Thr Ala Ser Ile Phe Gly Ser Ala Lys Ala
 145 150 155 160
 Ser Gln Glu Ala Asp Asn Val Leu Ile Leu Gln Asp Arg Lys Leu Val
 165 170 175
 Thr Gly Pro Gly Lys Arg Tyr Leu Gln Val Ser Lys Asn Arg Phe Asp
 180 185 190
 Gly Asp Val Gly Val Phe Pro Leu Glu Phe Asn Lys Asn Ser Leu Thr
 195 200 205
 Phe Ser Ile Pro Pro Lys Asn Lys Ala Arg Leu Lys Lys Ile Lys Asp
 210 215 220
 Asp Thr Gly Pro Val Ala Lys Lys Pro Xaa Xaa Gly Lys Lys Gly Ala
 225 230 235 240
 Thr Thr Gln Asn Xaa Glu Ile Xaa Ser Gly Gln Ala Pro Thr Pro Asp
 245 250 255
 Gln Gln Thr Pro Xaa Ser Xaa Gln Ser Glu Gly
 260 265

<210> 4938

<211> 447

<212> PRT

<213> Homo sapiens

<220>

4475

<221> SITE

<222> (365)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4938

Gly Arg Ala Ser Gln Ala Pro Ser Ser Gly Leu Pro Ala Gly Gly Ala
 1 5 10 15

Asn Gly Glu Ser Pro Gly Gly Gly Ala Pro Phe Pro Gly Ser Ser Gly
 20 25 30

Ser Ser Ala Leu Leu Gln Ala Glu Val Leu Asp Leu Asp Glu Asp Glu
 35 40 45

Asp Asp Leu Glu Val Phe Ser Lys Asp Ala Ser Leu Met Asp Met Asn
 50 55 60

Ser Phe Ser Pro Met Met Pro Thr Ser Pro Leu Ser Met Ile Asn Gln
 65 70 75 80

Ile Lys Phe Glu Asp Glu Pro Asp Leu Lys Asp Leu Phe Ile Thr Val
 85 90 95

Asp Glu Pro Glu Ser His Val Thr Thr Ile Glu Thr Phe Ile Thr Tyr
 100 105 110

Arg Ile Ile Thr Lys Thr Ser Arg Gly Glu Phe Asp Ser Ser Glu Phe
 115 120 125

Glu Val Arg Arg Arg Tyr Gln Asp Phe Leu Trp Leu Lys Gly Lys Leu
 130 135 140

Glu Glu Ala His Pro Thr Leu Ile Ile Pro Pro Leu Pro Glu Lys Phe
 145 150 155 160

Ile Val Lys Gly Met Val Glu Arg Phe Asn Asp Asp Phe Ile Glu Thr
 165 170 175

Arg Arg Lys Ala Leu His Lys Phe Leu Asn Arg Ile Ala Asp His Pro
 180 185 190

Thr Leu Thr Phe Asn Glu Asp Phe Lys Ile Phe Leu Thr Ala Gln Ala
 195 200 205

Trp Glu Leu Ser Ser His Lys Lys Gln Gly Pro Gly Leu Leu Ser Arg
 210 215 220

Met Gly Gln Thr Val Arg Ala Val Ala Ser Ser Met Arg Gly Val Lys
 225 230 235 240

Asn Arg Pro Glu Glu Phe Met Glu Met Asn Asn Phe Ile Glu Leu Phe

4476

	245		250		255										
Ser	Gln	Lys	Ile	Asn	Leu	Ile	Asp	Lys	Ile	Ser	Gln	Arg	Ile	Tyr	Lys
	260							265					270		
Glu	Glu	Arg	Glu	Tyr	Phe	Asp	Glu	Met	Lys	Glu	Tyr	Gly	Pro	Ile	His
	275						280					285			
Ile	Leu	Trp	Ser	Ala	Ser	Glu	Glu	Asp	Leu	Val	Asp	Thr	Leu	Lys	Asp
	290					295					300				
Val	Ala	Ser	Cys	Ile	Asp	Arg	Cys	Cys	Lys	Ala	Thr	Glu	Lys	Arg	Met
305					310					315					320
Ser	Gly	Leu	Ser	Glu	Ala	Leu	Leu	Pro	Val	Val	His	Glu	Tyr	Val	Leu
			325					330						335	
Tyr	Ser	Glu	Met	Leu	Met	Gly	Val	Met	Lys	Arg	Arg	Asp	Gln	Ile	Gln
		340					345						350		
Ala	Glu	Leu	Asp	Ser	Lys	Val	Glu	Val	Leu	Thr	Tyr	Xaa	Lys	Ala	Asp
	355						360					365			
Thr	Asp	Leu	Leu	Pro	Glu	Glu	Ile	Gly	Lys	Leu	Glu	Asp	Lys	Val	Glu
	370				375						380				
Cys	Ala	Asn	Asn	Ala	Leu	Lys	Ala	Asp	Trp	Glu	Arg	Trp	Lys	Gln	Asn
385					390					395					400
Met	Gln	Asn	Asp	Ile	Lys	Leu	Ala	Phe	Thr	Asp	Met	Ala	Glu	Glu	Asn
			405					410					415		
Ile	His	Tyr	Tyr	Glu	Gln	Cys	Leu	Ala	Thr	Trp	Glu	Ser	Phe	Leu	Thr
		420					425					430			
Ser	Gln	Thr	Asn	Leu	His	Leu	Glu	Glu	Ala	Ser	Glu	Asp	Lys	Pro	
	435					440						445			

<210> 4939

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4477

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4939

Ala Ala Ala Ala Gln Gly Leu Val Arg Ala Gly Arg Arg Glu Leu Met
 1 5 10 15

Ala Glu Glu Glu Ser Asp Gln Glu Ala Glu Arg Leu Gly Glu Glu Leu.
 20 25 30

Val Ala Ile Val Glu Ser Pro Leu Gly Pro Val Gly Leu Arg Ala Ala
 35 40 45

Gly Asp Gly Arg Gly Gly Ala Gly Ser Gly Asn Cys Gly Gly Gly Val
 50 55 60

Gly Ile Ser Ser Arg Asp Tyr Cys Arg Arg Phe Cys Gln Val Val Glu
 65 70 75 80

Asp Tyr Ala Gly Arg Trp Gln Val Pro Leu Pro Gln Leu Gln Val Leu
 85 90 95

Gln Thr Ala Leu Cys Cys Phe Thr Thr Ala Ser Ala Ser Phe Pro Asp
 100 105 110

Glu Cys Glu His Val Gln Tyr Val Leu Xaa Ser Leu Ala Val Ser Phe
 115 120 125

Phe Glu Leu Leu Leu Phe Phe Gly Arg Asp Glu Phe Tyr Glu Glu Pro
 130 135 140

Leu Lys Asp Ile Leu Gly Ser Phe Gln Glu Cys Gln Asn His Leu Arg
 145 150 155 160

Arg Tyr Gly Asn Val Asn Leu Glu Leu Val Thr Arg Ile Ile Arg Asp
 165 170 175

Gly Gly Pro Trp Glu Asp Pro Val Leu Gln Ala Val Leu Lys Ala Gln
 180 185 190

Pro Ala Ser Gln Glu Ile Val Asn Lys Tyr Leu Ser Ser Glu Asn Pro
 195 200 205

Leu Phe Phe Glu Leu Arg Ala Arg Tyr Leu Xaa Ala Cys Glu Arg Ile
 210 215 220

4478

Pro Glu Ala Met Ala Leu Ile Lys Ser Xaa Ile Asn His Pro Glu Ile
 225 230 235 240

Ser Lys Asp Leu Tyr Phe His Gln Ala Leu Phe Thr Cys Leu Phe Met
 245 250 255

Ser Pro Val Glu Asp Gln Leu Phe Arg Glu Val Leu Phe Glu Thr Ile
 260 265 270

Phe Ala Tyr Tyr His Phe Asn Pro Thr Lys Lys Lys Pro Lys Lys Lys
 275 280 285

Ser Ser Pro Leu Leu Leu Leu Asn Ser Phe Tyr Ser Asn Ala Lys Asp
 290 295 300

Leu Arg Ile Thr Leu Ser Gly Cys Val Phe Phe Trp His His Asn Leu
 305 310 315 320

Arg Ser Cys

<210> 4940

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4479

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4940

Xaa Asn Leu Leu Phe Val Gly Phe Xaa Lys Ser Phe Ala Cys Ile Xaa

1

5

10

15

Tyr Lys Thr Thr Thr Val Tyr Met Leu Leu Pro Leu Ala Asp Glu Leu

20

25

30

Xaa Xaa Lys

35

<210> 4941

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4941

Met Asn Gly Pro Val Leu Asp Pro Asp Lys Glu Glu Xaa Thr Met Glu

1

5

10

15

Ala Leu Gly Met Ile Glu Thr Arg Gly Leu Val Ala Leu Ile Glu Ala

20

25

30

Ser Asp Ala Met Val Lys Ala Ala Arg Val Lys Leu Val Gly Val Lys

35

40

45

Gln Ile Gly Gly Gly Leu Cys Thr Ala Met

50

55

<210> 4942

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4942

Pro Leu Lys Cys Phe Tyr Phe Gly Asn Phe Val Met Leu Ser Thr Phe

1

5

10

15

Val Ser Ala Gln Phe Ser Arg Leu Arg Ile Asn Leu Leu Phe Leu Asn

20

25

30

4480

Ser Thr Ala Asp Phe Ser Phe Lys Phe His Arg Leu Ser Thr Tyr Ile
 35 40 45

<210> 4943
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 4943
 Trp Gln Asn Gly Arg Leu Ile Phe Ser Ile Ile Ile Gly Glu His Ile
 1 5 10 15
 Ile Phe Trp Asn His Ala Ile Leu His Thr Val Lys Pro Leu Ile Phe
 20 25 30
 Gln Gly Asn Ser Phe Arg Ile Trp Tyr Trp His Ala Val Ser Tyr Leu
 35 40 45
 Ser Arg Ile Phe Gly Leu Ser Glu Arg Tyr Gln Phe Lys Ile Ser Gly
 50 55 60
 Ser Val Arg Ile Phe Asp Pro Ser Gln Cys Gln Tyr Leu Met Asn His
 65 70 75 80

<210> 4944
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 4944
 Lys Ser Ser Arg Lys Leu Leu Leu Lys Lys Thr Gly Tyr Leu Asn Ile
 1 5 10 15
 Glu Ile Tyr Val Cys Cys Glu Phe Lys Glu Pro Val Ile Val Ser Phe
 20 25 30
 Thr Lys Pro Ser Val Phe Asn Gly Cys Lys
 35 40

4481

<210> 4945

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4945

Arg Asn Val Asn Leu Cys Cys Phe Leu Cys Thr Ile Ala Ala Val Val
 1 5 10 15

Ser Leu Leu Glu Ile Asn Ile Pro Tyr Tyr Asp Val Tyr Glu Tyr Arg
 20 25 30

Phe Pro Phe Leu Pro Ser Leu Pro Pro Ser Pro Thr Phe Leu Phe Phe
 35 40 45

Phe Ser Leu Ser Ala Ser Leu Phe Leu Leu Pro Ser Ser Leu Pro Leu
 50 55 60

Ser Leu Leu Phe Leu Lys Ser Leu Ile Val Asn Lys Leu
 65 70 75

<210> 4946

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4946

Asn Ser Phe Cys Tyr Phe His Ile Arg Val Gln Thr Tyr Lys Gly Ala
 1 5 10 15

Cys Ser Leu Lys Val His Asn Tyr Ser Tyr Ser Val Cys Leu Tyr Cys
 20 25 30

Tyr Arg Met Leu Cys Phe Gly Ala Leu Ser Ser Ala Asp Pro Arg Ser
 35 40 45

Ser Val Glu Ile His Cys Leu Gly His Ser Leu Ile Arg Met Leu Ala
 50 55 60

Gly Asp Phe Val Ser Asp Val Ala Ser Leu Phe Ser Val His Arg Leu
 65 70 75 80

Arg Val Thr Thr Val Ala Cys Arg Val His Pro Val Gly Ala Ala Gln
 85 90 95

Leu Ser Glu Ser Lys Asn Leu Pro Thr Tyr Ser Asn Val Phe Ala Leu
 100 105 110

4482

<210> 4947

<211> 67

<212> PRT

<213> Homo sapiens

<400> 4947

Leu Ala Ser Glu Ser Val Val Gln Leu Val Cys Thr Gly Leu Lys Ala
 1 5 10 15

Gly Glu Trp Val Ile His His His Lys Gly Cys Pro Phe Phe Ala Val
 20 25 30

Thr Ala Asp Ala Cys Gly Arg Arg Ala Gln Gly Ser His Tyr His Phe
 35 40 45

Ser Leu Leu Thr Pro Arg Lys Leu Ser Thr Phe Leu Asp Thr Leu Phe
 50 55 60

Lys Val Leu
 65

<210> 4948

<211> 277

<212> PRT

<213> Homo sapiens

<400> 4948

Val Ile Leu Asp Gly Leu Leu Thr Trp Gly Gln Phe Lys Gln His Tyr
 1 5 10 15

Asn Arg His Phe Gly Phe Leu Gly Asp Phe Ile Gly Gln Val Gln Ser
 20 25 30

Arg Lys Cys Ile Glu Asp Val Ile His Phe Ala Trp Glu Glu Lys Leu
 35 40 45

Phe Leu Leu Ala Asp Glu Val Tyr Gln Asp Asn Val Tyr Ser Pro Asp
 50 55 60

Cys Arg Phe His Ser Phe Lys Lys Val Leu Tyr Glu Met Gly Pro Glu
 65 70 75 80

Tyr Ser Ser Asn Val Glu Leu Ala Ser Phe His Ser Thr Ser Lys Gly
 85 90 95

4483

Tyr Met Gly Glu Cys Gly Tyr Arg Gly Gly Tyr Met Glu Val Ile Asn
 100 105 110
 Leu His Pro Glu Ile Lys Gly Gln Leu Val Lys Leu Leu Ser Val Arg
 115 120 125
 Leu Cys Pro Pro Val Ser Gly Gln Ala Ala Met Asp Ile Val Val Asn
 130 135 140
 Pro Pro Val Ala Gly Glu Glu Ser Phe Glu Gln Phe Ser Arg Glu Lys
 145 150 155 160
 Glu Ser Val Leu Gly Asn Leu Ala Lys Lys Ala Lys Leu Thr Glu Asp
 165 170 175
 Leu Phe Asn Gln Val Pro Gly Ile His Cys Asn Pro Leu Gln Gly Ala
 180 185 190
 Met Tyr Ala Phe Pro Arg Ile Phe Ile Pro Ala Lys Ala Val Glu Ala
 195 200 205
 Ala Gln Ala His Gln Met Ala Pro Asp Met Phe Tyr Cys Met Lys Leu
 210 215 220
 Leu Glu Glu Thr Gly Ile Cys Val Val Pro Gly Ser Gly Phe Gly Gln
 225 230 235 240
 Arg Glu Gly Thr Tyr His Phe Arg Met Thr Ile Leu Pro Pro Val Glu
 245 250 255
 Lys Leu Lys Thr Val Leu Gln Lys Val Lys Asp Phe His Ile Asn Phe
 260 265 270
 Leu Glu Lys Tyr Ala
 275

<210> 4949

<211> 73

<212> PRT

<213> Homo sapiens

<400> 4949

Glu Asn Pro Ser Phe Thr Arg Arg Pro Asp Ser Phe Tyr Thr Ser Phe
 1 5 10 15
 Ile Met Leu Asp Cys Asn Lys Phe Gln Ile Leu Glu Trp Ala Tyr Leu
 20 25 30

4484

Thr Asp Leu Thr Ile Leu Met Ile Ser Ile Arg Ile Thr Tyr Ser Lys
35 40 45

Val Lys Ser Gly Lys Thr Leu Leu Val Phe Ile Leu Ile Ser Leu Tyr
50 55 60

Ser Phe Leu Asn Met Glu Ile Gln Trp
65 70

<210> 4950

<211> 33

<212> PRT

<213> Homo sapiens

<400> 4950

Ser Pro Ala Lys Trp Leu Met Pro Glu Ile Pro Ala Leu Cys Glu Ala
1 5 10 15

Lys Ala Gly Gly Ser Pro Glu Ala Arg Ser Ser Arg Val Ala Trp Ala
20 25 30

Ala

<210> 4951

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4951

Gly Arg Ala Val Leu Glu Ile Asp Trp Val Gly Leu Glu Pro Glu Phe
1 5 10 15

Ile Phe Leu Ile Cys Ile Pro Gly Asp Ser Cys Glu Ser Asp Ala Phe
20 25 30

Gly Asn His Cys Thr Lys Ser Tyr Leu Trp Val Leu Gln Thr Ala Ser
35 40 45

Pro Glu Ala Ser Leu Gly Leu Arg Ile Phe Ser Ser Asn Val Leu Val
50 55 60

Arg Ser Leu Ser Ile Leu Trp Gly Trp Leu Trp
65 70 75

4485

<210> 4952

<211> 30

<212> PRT

<213> Homo sapiens

<400> 4952

Ile	Phe	Ser	Ile	Phe	Thr	Val	Leu	Val	Tyr	Phe	Phe	Pro	Val	Thr	Val
1				5					10					15	

Cys	Met	Asn	Thr	Asn	Val	Val	Phe	Asn	Pro	Pro	Phe	Gln	Phe
			20					25					30

<210> 4953

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4953

Gly	Ala	Leu	Asp	Cys	Gly	Ser	Pro	Ala	Ser	Ser	Thr	Pro	Tyr	Phe	Thr
1				5					10					15	

Gly	Leu	Glu	Leu	Pro	Gly	Asp	Xaa	Lys	Leu	Asp	Ala	Pro	Tyr	Asn	Phe
			20					25						30	

Asn	His	Pro	Phe	Ser	Ile	Asn	Asn	Leu	Met	Xaa	Glu	Gln	Thr	Pro	Ala
			35					40					45		

Pro	Pro	Lys	Leu	Asp	Val	Gly	Phe	Xaa	Gly	Tyr	Gly	Ala	Glu	Gly	Gly
		50				55					60				

Glu	Pro	Gly	Val	Tyr	Tyr	Gln	Gly	Leu	Tyr	Ser	Arg	Ser	Leu	Leu	Asn
65					70					75					80

Ala Ser

4486

<210> 4954

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4954

Asp	Thr	Thr	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser
1				5					10					15	

Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Asp	Cys	Phe	Val	Phe	Ser	Arg
			20					25					30		

Val	Leu	Tyr	Lys	Trp	Asn	Tyr	Ile	Val	Cys	Thr	Phe	Leu	Tyr	Ser	Leu
		35				40						45			

Ala	Ser	Phe	Thr	Gln	Ile	Ile	Ile	Leu	Arg	Phe	Phe	Ser	Val	Val	Ala
	50					55					60				

Cys	Ile	Asn	Asn	Ser	Phe	Ile	Phe	Cys	Ser	Asn	Ile	Pro	Leu	Tyr	Gly
65					70					75				80	

Tyr	Thr	Lys	Ile	Tyr	His	Ser	Phe	Ala	Asp	Glu	His	Leu	Gly	Tyr	Leu
			85						90					95	

Gln	Phe	Tyr	Leu	Gln	Xaa	Lys	Leu	Leu	Arg	Ile	Leu	Val	Tyr	Glu	Ser
			100					105					110		

Leu	Tyr	Gly	His	Ile	Xaa	Ser	Phe
	115					120	

<210> 4955

<211> 44

<212> PRT

<213> Homo sapiens

4487

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4955

Phe	Ile	Asn	Gly	Lys	Pro	Glu	Val	Lys	Lys	Asp	Leu	Leu	Glu	Ala	Gln
1				5					10					15	

Thr	Asn	Ile	Ala	Phe	Leu	Gln	Ser	Glu	Leu	Asp	Ala	Leu	Lys	Ser	Xaa
			20					25					30		

Tyr	Ala	Asp	Xaa	Ser	Leu	Xaa	Thr	Glu	Xaa	Asp	Leu
		35					40				

<210> 4956

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4956

Asp	Ser	Gly	Ala	Ala	Phe	Ser	Phe	Gly	Gly	Leu	Ala	Phe	Ile	Val	Glu
1				5					10				15		

Asn	Ala	Met	Gly	Ser	Phe	Gln	Asn	Gly	Tyr	Leu	Ser	Asn	Leu	Ser	Ile
			20					25					30		

Phe	Gln	Asn	Ser	Tyr	Phe	Phe	Pro	Ala	His	Gly	Gln	Thr	Arg	Glu	Phe
		35						40				45			

Ser	Ser	Val	Leu	Arg	His	Glu	Asn	Leu	Val	Gly	His	Leu	Lys	Val	Lys
		50					55					60			

Ser	Val	Asn	Val
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4488

65

<210> 4957

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4957

Pro	Pro	Ala	Ala	Ala	Ser	His	Leu	Gly	Asn	Ile	Glu	Asn	Gln	Gly	Asn
1				5					10					15	

Gly	Leu	Lys	Ala	Gly	Arg	Ser	Val	Cys	Gln	Gln	Gly	Pro	Asn	Tyr	Val
			20					25					30		

Arg	Trp	Thr	Arg	Gly	Thr	His	Leu	Gln	Gly	Gly	Lys	Ser	Arg	Gly	Arg
		35					40					45			

Thr	Ser	Gly	Asp	Trp	Pro	Lys	Val	Leu	Pro	Cys	Leu	Gln	Asp	Glu	Thr
	50					55					60				

Arg	Leu	Leu	Ser	Pro	Ala	Phe	Xaa	Ala	Pro	Ala	Thr	Arg	Leu	Leu	Leu
65'						70				75				80	

Thr	Asp	Pro	Ser	Leu	Pro	Leu	Ser	Ala	Ser	Ile	Gln	Val	Ala	Val	Pro
				85					90					95	

Ala	Leu	Cys	Xaa	Ala	Leu	Ser	Cys	Leu	Cys	Ile	Leu	His	Lys	Leu	
			100					105					110		

<210> 4958

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

4489

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4958

Pro Gln Arg Xaa Val Lys Ser Phe Cys His Tyr Leu His Lys Cys Val
1 5 10 15

Lys His Arg Phe Gln Gln Ser Ala Trp His Ile Xaa Gly Cys Ser Met
20 25 30

Val Xaa Phe Ile Ile Ile Thr Gln Ile Pro Gln Trp Gln Glu Thr Ser
35 40 45

Phe Tyr Ile Met Glu Asn Ile Tyr Ile Lys Ser His Leu Leu
50 55 60

<210> 4959

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4959

Ala Ile His Ser Leu Gln Gln Phe Asp Lys Ile Tyr Phe Cys Glu Gln
1 5 10 15

Lys Leu Arg His Leu His Phe Leu Pro Met Trp Ser Leu Gln Thr Trp
20 25 30

Glu Thr Ile His Glu Tyr Leu Tyr Cys Met Val Ile
35 40

<210> 4960

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4490

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4960

His	Ile	Phe	Xaa	Phe	Phe	Phe	Phe	Cys	Tyr	Thr	Lys	Ser	Arg	Phe	Leu
1				5					10					15	
Leu	Asn	Leu	Cys	Asn	Asn	Tyr	Ile	Thr	Ile	Gln	Tyr	Lys	Tyr	Cys	Thr
			20					25					30		
Ser	Ser	Ile	Lys	Ile	Cys	Ser	Leu	Tyr	Asp	Arg	Ile	His	Leu	Lys	Thr
			35					40					45		
Leu	Val	Ile	Leu	Pro	Arg	Leu									
	50					55									

<210> 4961

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4961

Ser	Asn	Gln	Gly	Asp	His	Gln	Val	Lys	Leu	Lys	His	Lys	Ile	Ile	Val
1				5					10					15	
Gly	Gly	Phe	Leu	Val	Lys	Asp	Val	Asn	Val	Gly	Phe	Pro	Thr	His	His
			20					25					30		
Gly	Val	Ser	Thr	His	His	Cys	Met	Leu	Gly	Thr	Ala	Val	Ser	Leu	Gly
			35				40					45			
His	Glu	Leu	Lys	Glu	His	Thr	Asn	Phe	Trp	Ser	Val	Pro	Ala	Ala	Ser
			50				55				60				
Arg	Pro	Ser	Phe	Cys	Tyr										
	65				70										

<210> 4962

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

4491

<400> 4962

Val Gln Pro Gln His Ala Cys Thr Gln Ala Leu Ile Lys Thr Ala Cys
 1 5 10 15

Cys Ser Pro Leu Pro Arg Val Val Cys Trp Arg Ala Val Gly Val Arg
 20 25 30

Thr Asp Thr Arg Thr Phe His Leu Pro Gly Ala Leu Ala Ser Ser Ile
 35 40 45

Ser Phe Ser Thr Val Leu Lys Gln Asp Arg Xaa Ser Glu Arg Pro Val
 50 55 60

Ile Cys Pro Lys Cys Cys Arg Arg Arg Leu Asn Val Leu Glu Ser Leu
 65 70 75 80

Leu Ser His Leu His Tyr Asp Lys Ser Ile Val Pro Asn Arg
 85 90

<210> 4963

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4963

Leu Ala His Ile Lys Ile Val Glu Pro His Thr Leu Asn Leu Ala Asn
 1 5 10 15

Leu Val Thr Ala Gly Leu His Tyr Pro Val Leu Phe Phe Thr Arg Leu
 20 25 30

Thr Leu Pro Cys Ser Trp Cys Cys Val Asp Leu Cys Xaa Lys His Asn
 35 40 45

Arg Asn Ile
 50

<210> 4964

<211> 41

<212> PRT

<213> Homo sapiens

4492

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4964

Trp Ser Val Gln Pro His Ser Asp Ile Thr Met Arg Ser Trp Ile Ser
 1 5 10 15

Ile Pro Trp Gly Gly Pro Val Arg His Leu Leu His Pro Trp Asn Trp
 20 25 30

Ile Ile Leu Glu Xaa Lys Pro Gly Thr
 35 40

<210> 4965

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4965

Gly Arg Arg Gln Ser Ser Gly Ser Ser Ser Pro Ala Ala Tyr Gly Thr
 1 5 10 15

Leu Pro Cys Leu Asp Pro Ser Ile Arg Lys Thr Tyr Pro Ser Thr Thr
 20 25 30

Gly Lys Ser Ala Asn Leu Asn Pro Lys Met Ala Met Ile Ser Val Cys
 35 40 45

Glu Thr Ser
 50

<210> 4966

<211> 160

<212> PRT

<213> Homo sapiens

<400> 4966

Ile Phe Leu Val Phe Cys Lys Leu Ser Val Ile Phe Ser Ser Leu Leu
 1 5 10 15

Arg Lys Met Ala Thr Gln Met Val Ala Ala Gln Leu Ala Ser Met Val
 20 25 30

Trp Asn Asn Pro Ser Gln Gln Gln Phe Met Gln Phe Gly Gly Ser Ser
 35 40 45

4493

Gly Ser Gln Leu Pro Gln Ile Gln Thr Asp Val Val Leu Pro Ser Cys
 50 55 60
 Lys Lys Lys Ala Pro Ala Glu Thr Pro Val Lys Glu Arg Leu Phe Ile
 65 70 75 80
 Val Phe Asn Pro His Pro Leu Pro Leu Asp Val Leu Glu Asp Ile Phe
 85 90 95
 Cys Arg Phe Gly Asn Leu Ile Glu Val Tyr Leu Val Ser Gly Lys Asn
 100 105 110
 Val Gly Tyr Ala Lys Tyr Ala Asp Arg Ile Ser Ala Asn Asp Ala Ile
 115 120 125
 Ala Thr Leu His Gly Lys Ile Leu Asn Gly Val Arg Leu Lys Val Met
 130 135 140
 Leu Ala Asp Ser Pro Arg Glu Glu Ser Asn Lys Arg Gln Arg Thr Tyr
 145 150 155 160

<210> 4967

<211> 57

<212> PRT

<213> Homo sapiens

<400> 4967

Lys Ser Glu Thr Pro Ser Gln Glu Lys Lys Lys Lys Val Tyr Ser
 1 5 10 15
 Asn Arg Gln Ile Arg Gly Leu Arg Asp Pro Pro Leu Leu Leu Leu Pro
 20 25 30
 Glu Val Cys Arg Thr Val Tyr Arg Tyr Leu Leu Asp Arg Cys Pro Leu
 35 40 45
 Ser Tyr Phe Ile Cys Thr Val Ile Leu
 50 55

<210> 4968

<211> 68

<212> PRT

<213> Homo sapiens

4494

<400> 4968

Met Ser Lys Gly Thr Pro Leu Asn Thr Lys Thr Phe Ser Ser Trp Gln
 1 5 10 15

Thr Tyr Leu Ala Arg Ser Trp Arg Arg Val Arg Phe Gln Thr Met Leu
 20 25 30

Pro Phe Cys Pro Cys Gln Tyr Val Leu Thr Asp Cys Asp Ser Ala Val
 35 40 45

Asn Thr His Thr His Thr Gln Thr His Thr Gln Ala Pro Ser Val Tyr
 50 55 60

Asp Gln Asp Lys
 65

<210> 4969

<211> 49

<212> PRT

<213> Homo sapiens

<400> 4969

Pro Val Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Ser Pro Gly Val Pro Asn Ser Val Phe Pro Glu Glu Glu Asp
 20 25 30

Leu Ser Tyr Leu Leu Lys Gln Arg Ser Pro Phe Pro Val Val Ser Leu
 35 40 45

Leu

<210> 4970

<211> 199

<212> PRT

<213> Homo sapiens

<400> 4970

Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln
 1 5 10 15

Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu Lys Asp Ala
 20 25 30

4495

Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu Val Ile Asp
 35 40 45
 Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly
 50 55 60
 Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu
 65 70 75 80
 Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His Arg Phe Glu
 85 90 95
 Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe
 100 105 110
 Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala
 115 120 125
 Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser
 130 135 140
 Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala
 145 150 155 160
 Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser
 165 170 175
 Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu Pro Arg
 180 185 190
 Ile Ala Glu Leu Glu Ile Ser
 195

<210> 4971

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4971

4496

Ala Ser Pro Gly Leu Gly Gly Ala Gln Ser Ser Val Leu His Asn Gly
 1 5 10 15
 Phe Phe His Gly Ser Pro Gly Glu Leu Leu Tyr Thr Gln Lys Ile Gln
 20 25 30
 Pro Leu Pro Ala Leu Ser Pro Phe Ser Leu Leu Leu Pro Phe Pro Met
 35 40 45
 Pro Arg Ser Arg Gln Xaa Leu Thr Phe Arg Thr Ser Ile Ala Xaa Leu
 50 55 60
 Ile Leu Arg Pro Leu Phe Lys Gly Gly
 65 70

<210> 4972

<211> 301

<212> PRT

<213> Homo sapiens

<400> 4972

Lys Ser Pro Gln Cys His Cys Leu Asp Leu Leu Glu Lys Tyr Gly Gln
 1 5 10 15
 Gly Gly Asn Cys Thr Glu Gly Arg Met Val Phe Ser Tyr His Asn Ser
 20 25 30
 Phe Leu Ile Ala Asp Arg Asn Glu Ala Trp Ile Leu Glu Thr Ala Gly
 35 40 45
 Lys Tyr Trp Ala Ala Glu Lys Val Gln Glu Gly Val Arg Asn Ile Ser
 50 55 60
 Asn Gln Leu Ser Ile Thr Thr Lys Ile Ala Arg Glu His Pro Asp Met
 65 70 75 80
 Arg Asn Tyr Ala Lys Arg Lys Gly Trp Trp Asp Gly Lys Lys Glu Phe
 85 90 95
 Asp Phe Ala Ala Ala Tyr Ser Tyr Leu Asp Thr Ala Lys Met Met Thr
 100 105 110
 Ser Ser Gly Arg Tyr Cys Glu Gly Tyr Lys Leu Leu Asn Lys His Lys
 115 120 125
 Gly Asn Ile Thr Phe Glu Thr Met Met Glu Ile Leu Arg Asp Lys Pro
 130 135 140
 Ser Gly Ile Asn Met Glu Gly Glu Phe Leu Thr Thr Ala Ser Met Val

4497

145	150							155							160		
Ser	Ile	Leu	Pro	Gln	Asp	Ser	Ser	Leu	Pro	Cys	Ile	His	Phe	Phe	Thr		
				165			170				175						
Gly	Thr	Pro	Asp	Pro	Glu	Arg	Ser	Val	Phe	Lys	Pro	Phe	Ile	Phe	Val		
				180			185				190						
Pro	His	Ile	Ser	Gln	Leu	Leu	Asp	Thr	Ser	Ser	Pro	Thr	Phe	Glu	Leu		
				195			200				205						
Glu	Asp	Leu	Val	Lys	Lys	Lys	Ser	His	Phe	Lys	Pro	Asp	Arg	Arg	His		
				210			215				220						
Pro	Leu	Tyr	Gln	Lys	His	Gln	Gln	Ala	Leu	Glu	Val	Val	Asn	Asn	Asn		
225				230			235				240						
Glu	Glu	Lys	Ala	Lys	Ile	Met	Leu	Asp	Asn	Met	Arg	Lys	Leu	Glu	Lys		
				245			250				255						
Glu	Leu	Phe	Arg	Glu	Met	Glu	Ser	Ile	Leu	Gln	Asn	Lys	His	Leu	Asp		
				260			265				270						
Val	Glu	Lys	Ile	Val	Asn	Leu	Phe	Pro	Gln	Cys	Thr	Lys	Asp	Glu	Ile		
				275			280				285						
Gln	Ile	Tyr	Gln	Ser	Asn	Leu	Ser	Val	Lys	Val	Ser	Ser					
				290			295				300						

<210> 4973

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4973

[illegible]

4498

<210> 4974

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4974

Cys Leu Thr Ser Leu Phe Ile Leu Asp Leu Asn Phe Ser Phe Leu Pro
1 5 10 15

Ser Pro Phe Thr Ser Ile Arg Arg Leu His His His Phe Phe Gly Pro
20 25 30

Leu Thr Leu Leu Ser Phe Pro Phe Ser Phe Ser Phe Phe Asn Arg Met
35 40 45

Ser Ser Ile Leu Ser Leu His Ser Pro Pro Asp Ala Val Asp Ser Ala
50 55 60

Met Leu Trp Ile
65

<210> 4975

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4975

Cys Phe Ser Pro Phe Leu Gln Met Phe Val Ser Ser Ser Gly Leu Pro
1 5 10 15

Pro Ser Pro Val Pro Ser Pro Arg Arg Phe Ser Ser Arg Arg Ser Gln

4499

				20				25				30			
Ser	Pro	Val	Lys	Cys	Ile	Arg	Pro	Ser	Val	Leu	Gly	Pro	Leu	Lys	Arg
35				40				45							
Lys	Gly	Glu	Met	Glu	Thr	Glu	Ser	Gln	Pro	Lys	Arg	Leu	Phe	Gln	Gly
50				55				60							
Thr	Thr	Asn	Met	Leu	Ser	Pro	Asp	Ala	Ala	Gln	Leu	Ser	Asp	Leu	Ser
65				70				75				80			
Ser	Xaa	Ser	Asp	Ile	Leu	Asp	Gly	Ser	Xaa	Ser	Ser	Ser	Gly	Leu	Ser
85				90				95							
Ser	Asp	Pro	Leu	Ala	Lys	Gly	Ser	Ala	Thr	Ala	Glu	Ser	Pro	Val	Ala
100				105				110							
Cys	Ser	Asn	Ser	Cys	Ser	Ser	Phe	Ile	Leu	Met	Xaa	Asp	Leu	Ser	Pro
115				120				125							

Lys

<210> 4976

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4976

Glu Arg Val Gln Val Asn Ala Asn Asp Val Leu Ala Thr Phe Ser Gln
1 5 10 15

Lys Ile Leu His Trp Asn Thr Asp Cys Asn Ile Lys Leu Leu Cys Val
20 25 30

4500

Tyr Cys Phe Tyr Xaa Cys Ile His Arg Xaa Val Phe Tyr Arg Tyr Ile
35 40 45

Arg Ser Met Ala Leu Xaa
50

<210> 4977

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4977

Val Ile Ala Val Gln Glu Pro Gly Val Pro Ser Arg Asp Pro Cys Leu
1 5 10 15

Glu Ala Gln Glu Arg Pro Ala Ala Ser Met Pro Trp Asp Ala Arg Arg
20 25 30

Pro Gly Gly Gly Ala Asp Gly Gly Pro Glu Ala Ser Gly Ala Ala Arg
35 40 45

Ser Arg Ala Gln Lys Gln Cys Arg Lys Ser Ser Phe Ala Phe Tyr Gln
50 55 60

Ala Val Arg Asp Leu Leu Pro Val Trp Leu Leu Gly Xaa Tyr
65 70 75

<210> 4978

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4978

Arg Glu Gln Pro Ala Gly His Thr Pro Leu Pro Val Pro Ala Xaa Gln
1 5 10 15

4501

Pro Val Asp Tyr Phe Ile Leu Ile Leu Gln Gly Arg Val Glu Val Glu
 20 25 30

Ile Gly Lys Glu Gly Leu Lys Phe Glu Asn Gly Ala Phe Thr Tyr Tyr
 35 40 45

Gly Val Ser Ala Leu Thr Val Pro Ser Ser Val His Gln Ser Pro Val
 50 55 60

Ser Ser Leu Gln Pro Ile Arg His Asp Leu Gln Pro Asp Pro Gly Asp
 65 70 75 80

Gly Thr His Ser Ser Ala Tyr Cys Pro Asp Tyr Thr Val Arg Arg Ser
 85 90 95

Leu Ile Cys Ser Ser Ser Arg Leu Arg Asp Cys Ser Thr Ser Met His
 100 105 110

Ser Trp Leu Pro Glu Pro Arg Thr Cys His Ser Pro Leu Arg Thr Pro
 115 120 125

Thr Cys Ser Tyr Ser Arg Gln Pro Asp Gln Ala Pro Trp
 130 135 140

<210> 4979

<211> 79

<212> PRT

<213> Homo sapiens

<400> 4979

Lys Asp Leu Asp Asn Gln Thr Ile Ile Val Gly Asn Phe Asn Thr Pro
 1 5 10 15

Leu Thr Val Leu Asp Arg Ser Leu Arg Gln Lys Thr Asn Lys Glu Met
 20 25 30

Leu Asp Leu Asn Ser Ala Leu Asn Gln Leu Lys Leu Ile Asp Lys Tyr
 35 40 45

Arg Thr Leu His Pro Lys Gly Met Leu Ile His Cys Trp Trp Lys Cys
 50 55 60

Lys Leu Val Gln Ala Leu Arg Lys Ala Val Trp Arg Phe Leu Lys
 65 70 75

<210> 4980

<211> 56

4502

<212> PRT

<213> Homo sapiens

<400> 4980

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Asp Pro Lys Cys Leu Gly Pro Lys Tyr Phe Gly Phe Phe Gln Ile Leu
 1             5             10             15

Glu Tyr Leu His Tyr Thr Leu Met Ser Ile Ser Phe Glu His His Val
          20             25             30

Gly Val Leu Lys Ala Ser Asp Phe Gly Ala Phe His Ile Leu Asp Phe
          35             40             45

Gln Ile Arg Asp Ala Gln Pro Val
 50             55

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<210> 4981

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4981

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Gly Xaa Tyr Gln Ala Asn Ile Ala Glu Leu Thr His Ala Asn Asn Arg
 1             5             10             15

Val Asp Gln Asn Glu Ala Glu Val Lys Lys Leu Arg Leu Arg Val Glu
          20             25             30

Glu Leu Lys Gln Gly Leu Asn Gln Lys Glu Asp Glu Leu Asp Asp Ser
          35             40             45

Leu Asn Gln Ile Arg Lys Leu Gln Arg Ser Leu Asp Glu Glu Lys Glu
          50             55             60

Arg Asn Glu Asn Leu Glu Thr Glu Leu Arg His Leu Gln Asn Trp
 65             70             75

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<210> 4982

<211> 104

<212> PRT

<213> Homo sapiens

4503

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4982

Gly Pro His Pro Gly Gly Gly Pro Trp Gly Gly Asp Arg Glu Val Ala
 1 5 10 15

Leu Lys Asn Thr Ala Val Leu Ile Leu His Ser Met Gly Pro His Pro
 20 25 30

Gly Gly Gly Gly Gly Ser His Cys Ile Cys Trp Leu Arg Ala Pro Ala
 35 40 45

Cys Ala Ser Arg Ala Pro Gly Leu Leu Cys Leu Leu Ser Val Pro Ile
 50 55 60

Ser Ile Lys Gly Leu Pro Leu Gly Gly Gln Lys Lys Lys Lys Lys Lys
 65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 85 90 95

Lys Lys Lys Xaa Gly Xaa Pro Phe
 100

<210> 4983

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4983

Arg Lys Lys Gln Ile Ala Leu Asn Ala Val Tyr Pro Lys Thr Arg Phe
 1 5 10 15

Pro Gly Cys Pro Ser Thr Leu Tyr Arg Pro Pro Phe Trp Leu Leu Thr
 20 25 30

Gln Cys Ile Phe Cys Tyr Ile Lys Met Gly Pro Arg Leu His Leu Leu
 35 40 45

Arg Asn Tyr Lys Leu Leu Gly Val Gln Gly Cys Val Ser Tyr Ile Leu
 50 55 60

4504

Pro
65

<210> 4984

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4984

Gly Val Lys Glu Ser Gly Val Thr Asn Val Val Ala Gly Ala Thr Leu
1 5 10 15

Lys Leu Cys Ser Val Pro Trp Lys Lys Glu Glu Glu Glu Glu Ala Lys
20 25 30

Leu Glu Gly Lys Ala Pro Gly Val Ser Ser Trp Asn Leu Arg Trp Glu
35 40 45

Glu Thr Leu Lys Val Ile Trp Ser Ser Ile Phe Gln Ser Met Phe His
50 55 60

Glu Leu Val Phe Gln Lys Trp Phe Pro Gly Leu Val Ser Gly Ser Ser
65 70 75 80

Met Arg Val Ala Val Val Tyr Phe Val His Arg Cys Ile Leu Xaa Asp
85 90 95

<210> 4985

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4985

Ala Ala Gly Ser Asn Ala Ser Gln Ala Glu His Ser Val Ser Arg Asp
1 5 10 15

Ser Cys Val Glu Gln Ile Arg Val His Ala Gln Val Pro Arg Leu Glu
20 25 30

4505

Trp Leu Cys Gln Asn Pro Phe Lys Gly Phe Ser Phe Ser Leu Leu Gly
 35 40 45

Gln Asn Ile Leu Ser His Leu Gly Arg Phe Arg Met Gly Arg Ala Asn
 50 55 60

Leu Asn Lys Arg Phe Phe Leu Tyr Pro Glu Ile Glu Gly
 65 70 75

<210> 4986

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4986

Leu Leu Ala Pro Thr Arg Arg His Ser Pro Gly Ser Pro Ala Phe Ala
 1 5 10 15

Pro Ser Ser Arg Ala Thr Ala Met Cys Pro Arg Ala Ala Arg Ala Pro
 20 25 30

Ala Thr Leu Leu Leu Ala Leu Gly Ala Val Leu Trp Pro Ala Ala Gly
 35 40 45

Ala Trp Glu Leu Thr Ile Leu His Thr Asn Asp Val His Ser Arg Leu
 50 55 60

Glu Gln Thr Ser Glu Asp Ser Ser Lys Cys Val Asn Ala Ser Arg Cys
 65 70 75 80

Met Gly Gly Val Ala Arg Leu Phe Thr Lys Val Gln Gln Ile Arg Arg
 85 90 95

4506

Ala Glu Pro Asn Val Leu Leu Leu Asp Ala Gly Asp Gln Tyr Gln Gly
 100 105 110
 Thr Ile Trp Phe Thr Val Tyr Lys Gly Ala Glu Val Ala His Phe Met
 115 120 125
 Asn Ala Leu Arg Tyr Asp Ala Met Ala Leu Gly Asn His Glu Phe Asp
 130 135 140
 Asn Gly Val Glu Gly Leu Ile Glu Pro Leu Leu Lys Glu Ala Lys Phe
 145 150 155 160
 Pro Ile Leu Ser Ala Asn Ile Lys Ala Lys Gly Pro Leu Ala Ser Gln
 165 170 175
 Ile Ser Gly Leu Tyr Leu Pro Tyr Lys Val Leu Pro Xaa Gly Asp Glu
 180 185 190
 Xaa Val Gly Ile Val Gly Tyr Thr Xaa Lys Glu Thr Pro Phe Leu Ser
 195 200 205
 Asn Pro Gly Thr Asn Leu Val Phe Glu Asp Glu Ile Thr Ala Leu Gln
 210 215 220
 Pro Glu Val Asp Lys Leu Lys Thr Leu Asn Val Asn Lys Ile Ile Ala
 225 230 235 240
 Leu Gly His Ser Gly Phe Glu Met Asp Lys Leu Ile Ala Gln Lys Val
 245 250 255
 Arg Gly Val Asp Val Val Val Gly Gly His Ser Asn Thr Phe Leu Tyr
 260 265 270
 Thr Gly Asn Cys Phe Lys Arg Ile Ala Trp Ala Arg Met Ser Arg
 275 280 285

<210> 4987

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4987

Tyr Ala Ser Leu Gln Cys Tyr Trp Ser Lys Cys Met Ser Ile Ser Gln
 1 5 10 15
 Arg Leu Tyr Pro Cys Ser Leu Thr Leu Gly Asn Leu Lys Ala Leu Ile
 20 25 30
 Leu Leu Leu Ser Pro His Lys Glu Val Leu Leu Ser Gly Gly Arg Ala

4507

35 40 45
 Asp Val Gly His Pro Thr Glu Asn Phe Arg Asn His Val Arg Asp Asp
 50 55 60
 Ala Ser His Glu Arg Leu Arg Ala Ser Phe Arg Phe Gly Asn Ile Leu
 65 70 75 80
 Lys

<210> 4988

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4988

Leu Ala Ser Ser Arg Gly Gln Arg Thr Asp Ile Leu Pro Thr Phe Gly
 1 5 10 15

Gly Pro Arg Glu Ala Pro Gly Ala Lys Val Leu Ala Leu Val Pro Gly
 20 25 30

Thr Gln Glu Met Pro Ser Pro Val Gly Leu Leu Arg Ala Leu Pro Leu
 35 40 45

Pro Trp Pro Gln Phe Leu Ala Cys Thr Leu Arg Arg Leu Ala Gly Pro
 50 55 60

Arg Xaa Ser Thr Gly Pro Ser Gln Lys Pro Pro Pro Leu Cys Ser Val
 65 70 75 80

Pro Cys Arg Val Pro Ala Asn Asp Gly Gly Gly Gly Pro Gly Lys Pro
 85 90 95

4508

Ser Ser Ala Leu Trp Thr Xaa Ser Ala Cys Tyr Ser Glu Xaa Gly Leu
 100 105 110

Glu Thr Ser Ser Ser Arg Ser
 115

<210> 4989

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4989

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ala Thr Val Pro
 20 25 30

Gly Leu Pro Trp Leu Phe Ser
 35

<210> 4990

<211> 97

<212> PRT

<213> Homo sapiens

<400> 4990

Ala Phe Tyr Cys Arg Pro Ser Pro Glu Lys Gly Ala Arg Val Phe Pro
 1 5 10 15

Glu Pro Arg Cys Gln Gly Pro Arg Thr Pro Phe Thr Ala Asp Pro Leu
 20 25 30

Gln Arg Leu Gly Arg Gly Leu Trp Arg Thr Trp Phe Leu Leu Thr Val
 35 40 45

Leu Pro Leu Gly Pro Pro Ser Gln Thr Gln Thr Ile Gln Asp Pro Leu
 50 55 60

Ser Val Arg Pro Asn Gly Asn Ser Glu Ala Val Ile Phe Pro Pro Leu
 65 70 75 80

Pro Leu His Ser Leu Val Phe Cys Pro Leu Leu Cys Ser Ser Leu Pro
 85 90 95

Pro

4509

<210> 4991

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4991

Met	Glu	Lys	Leu	Val	Leu	Asp	His	Asp	Gly	Lys	Gly	Val	Leu	Glu	Leu
1				5					10				15		

Leu	Pro	Phe	Gly	Ile	Thr	Asp	Arg	Thr	Asp	Phe	Leu	Ser	Leu	Ile	Arg
			20					25					30		

Asn	Ile	Tyr	Asn	Leu	Phe	Ser	Lys	Ser	Ala	Thr	Arg	Arg	Leu	His	Leu
			35					40					45		

His	Asp	Lys	Thr	Leu	Val	Ser	Thr	Thr	Pro	Tyr	Leu	Asn	Pro	Asp	Ser
			50				55					60			

Pro	Lys	Phe	Leu	Asp	Asn	Asn	Leu	Thr	Xaa	Ser	Ile	His	Ala	Asn	Gln
			65				70				75				80

<210> 4992

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4992

Leu	Phe	Pro	Thr	His	Pro	Lys	Pro	Arg	Thr	Arg	Leu	Phe	Ser	Leu	Ser
1				5					10					15	

Ser	Gly	Arg	Met	Arg	Arg	Ala	Gly	Leu	Gly	Glu	Gly	Val	Pro	Pro	Gly
			20					25					30		

Asn	Tyr	Gly	Asn	Tyr	Gly	Tyr	Ala	Asn	Ser	Gly	Tyr	Ser	Ala	Cys	Glu
			35					40					45		

Glu	Glu	Asn	Glu	Arg	Leu	Thr	Glu	Ser	Leu	Arg	Ser	Lys	Val	Thr	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4510

50 55 60
 Ile Lys Ser Leu Ser Ile Glu Ile Gly His Glu Val Lys Thr Gln Asn
 65 70 75 80
 Lys Leu Leu Ala Glu Met Asp Ser Gln Phe Asp Ser Thr Thr Gly Phe
 85 90 95
 Leu Gly Lys Thr Met Gly Lys Leu Lys Ile Leu Ser Arg Gly Ser Gln
 100 105 110
 Thr Lys Leu Leu Cys Tyr Met Met Leu Phe Ser Leu Phe Val Phe Phe
 115 120 125
 Ile Ile Tyr Trp Ile Ile Lys Leu Arg
 130 135

<210> 4993

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4993

Ser Thr Leu Leu Leu Leu Pro Leu Pro Val Arg Pro Ala Phe Gly Glu
 1 5 10 15
 Lys Val Arg Leu Glu Leu Arg Arg Ala Ala Asn Pro Thr Val Pro Phe
 20 25 30
 Arg Cys Leu Val Leu Pro Leu Gln Pro Arg Thr Leu Thr Phe Lys Arg
 35 40 45
 Val Thr Ala Gly Arg Gln Gly Arg Gly Ser Arg Thr Leu Ser Glu Cys
 50 55 60
 Leu Ala Val Pro Trp Pro Val Arg Ala Ser Trp Leu Thr Phe Gln Leu
 65 70 75 80
 Ala Glu Leu Trp Asp Thr Ser Phe Leu Val Ser Cys Ala Arg Ser Tyr
 85 90 95
 Gly Lys Arg Glu Leu Gln Leu Arg Phe Ser Ser Ser Gln Thr Val Lys
 100 105 110

4511

<210> 4994

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4994

His Val Ala Leu Trp Leu Lys Phe Phe Asn Leu Glu Met Thr Gln Thr
1 5 10 15

His Arg Arg Cys Ser Asn Thr Thr Tyr Ser Ala Asn Leu Gly Lys Gly
20 25 30

Thr Ser Gln Leu Ala Arg Phe Pro His Tyr Leu Pro Cys Ile His Ala
35 40 45

Ala His Val Phe Phe Ile Arg Met Leu Val Lys Phe Trp Leu Leu Tyr
50 55 60

Ile
65

<210> 4995

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4995

Leu Lys Xaa Cys Val Cys Met Gln Thr Tyr Val Asn Thr His Ile His
1 5 10 15

Ile Gly Tyr Asp Asp Asp Asn Tyr Leu Leu Gln Ile Arg Cys Leu Leu
20 25 30

Tyr Val Tyr
35

<210> 4996

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4996

4513

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4998

Asn	Tyr	Arg	Ser	Lys	Leu	Phe	Val	Asp	Asn	Phe	Arg	Val	Lys	Phe	Asp
1				5					10					15	

Asn	Leu	Gly	Tyr	Leu	Pro	Asn	Phe	Lys	Ile	Glu	Val	Arg	Ile	Ser	Val
			20					25						30	

Thr	Gln	Pro	Trp	Glu	Xaa	Trp	Xaa	Ser	His	Ile	Arg
			35					40			

<210> 4999

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4999

Thr	Glu	Asp	Leu	Phe	Gly	Phe	Lys	His	Leu	Leu	Arg	Gln	Tyr	Leu	Leu
1				5					10					15	

Gly	Lys	Pro	Asn	Ile	Ala	Asn	Gly	Gln	Phe	Asp	Phe	Asn	Phe	Ser	Lys
			20					25						30	

Asp	Thr	Leu	Leu	Ser	Arg	Arg	Leu	Lys	Cys	Leu	His
			35					40			

<210> 5000

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

4514

<400> 5000

Glu Xaa Val Leu Lys Pro Phe Ile Ser Phe Tyr Phe Ala Ile Cys Lys
1 5 10 15

Cys Leu Leu Ser Ser Leu His Glu Val Ala Val Thr Phe Phe Thr Phe
20 25 30

Lys Leu Pro Phe Tyr Phe
35

<210> 5001

<211> 34

<212> PRT

<213> Homo sapiens

<400> 5001

Pro Leu Leu Ser Leu His Val Ser Ile Glu Gly Ser Gly Ile Pro Gly
1 5 10 15

Trp Gln Leu Met Asp Lys Arg His Tyr Ala Lys Ile Gln Phe Trp Ile
20 25 30

Ser Tyr

<210> 5002

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5002

4515

Xaa Leu Gly Tyr Thr Xaa Xaa Lys Gly Thr Lys Ala Gly Val Thr Ala
 1 5 10 15

Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Trp
 20 25 30

His Glu Pro Lys Gly Thr Gln Cys Gly Met Thr Lys Tyr Leu Leu Ser
 35 40 45

Glu Ser Thr Ala Phe Thr Tyr Leu Pro Val Phe Lys Ile Phe Val Lys
 50 55 60

Ser Tyr Lys Lys Leu Gln Phe Asp Gln Ile Trp Val Tyr Ala Val Cys
 65 70 75 80

Tyr Pro Gln Arg His Phe Glu Ser Ser Cys Asp Ala Phe Asn Asn Val
 85 90 95

Leu Ser Leu Leu Ile Pro Leu Ser Asn Leu Ile Trp Tyr Ser Gln Asn
 100 105 110

Ser Tyr Ser Leu Arg Gly Asn
 115

<210> 5003

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5003

Val Cys Ile Tyr Phe Phe Ser Lys Glu Thr Ala Tyr Ile Phe His Val
 1 5 10 15

Ser Met Phe Leu Arg Pro Trp Val Thr Val Gly Ile Ala Leu Met Gly

4516

20 25 30
 Ala Xaa Gln Ala Trp Gly Leu Val Leu Ala Leu Asp Leu Glu Gln Gly
 35 40 45
 Thr Ser Pro Ala Gly Leu Gln Phe Ser Pro Leu Xaa Asn Glu Arg Xaa
 50 55 60
 Glu Leu Ser Asp Leu Lys Ser Phe Gln
 65 70

<210> 5004

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5004

Ile Ala Asn Ser Ser Leu Gly Leu Ala Leu Ser Val Asp Phe Ser Met
 1 5 10 15
 Leu Arg Arg Lys Pro Thr Arg Leu Glu Leu Lys Leu Asp Asp Ile Glu
 20 25 30
 Glu Phe Glu Asn Ile Arg Lys Asp Leu Glu Thr Arg Lys Lys Gln Lys
 35 40 45
 Glu Asp Val Glu Val Val Gly Gly Ser Asp Gly Glu Gly Ala Ile Gly
 50 55 60
 Leu Ser Ser Asp Pro Lys Ser Arg Glu Gln Met Ile Asn Asp Arg Ile
 65 70 75 80
 Gly Tyr Lys Pro Gln Pro Lys Pro Asn Asn Arg Ser Ser Gln Phe Gly
 85 90 95
 Ser Leu Glu Phe
 100

<210> 5005

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

4517

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (278)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5005

Val	Leu	Leu	Leu	Gln	Lys	Asp	Ser	Leu	Leu	Thr	Ala	Ala	Gln	Leu	Lys
1				5				10						15	

Ala	Lys	Gly	Glu	Leu	Ser	Phe	Glu	Gln	Asp	Gln	Leu	Val	Ala	Gly	Gly
			20					25					30		

Gln	Leu	Gly	Glu	Leu	His	Asn	Gly	Thr	Gln	Tyr	Arg	Glu	Val	Arg	Gln
		35					40					45			

Phe	Cys	Ser	Gly	Ser	Gly	His	His	Leu	Val	Arg	Phe	Tyr	Phe	Leu	Thr
	50					55					60				

Arg	Val	Tyr	Ser	Glu	Tyr	Leu	Glu	Asp	Val	Leu	Glu	Glu	Leu	Thr	Tyr
	65				70					75					80

Gly	Pro	Ala	Pro	Asp	Leu	Val	Ile	Ile	Asn	Ser	Cys	Leu	Trp	Asp	Leu
				85					90					95	

Ser	Arg	Tyr	Gly	Arg	Cys	Ser	Met	Glu	Ser	Tyr	Arg	Glu	Asn	Leu	Glu
			100					105					110		

Arg	Val	Phe	Val	Arg	Met	Asp	Gln	Val	Leu	Pro	Asp	Ser	Cys	Leu	Leu
		115					120					125			

Val	Trp	Asn	Met	Ala	Met	Pro	Leu	Gly	Glu	Arg	Ile	Thr	Gly	Gly	Phe
	130					135					140				

Leu	Leu	Pro	Glu	Leu	Gln	Pro	Leu	Ala	Gly	Ser	Leu	Arg	Arg	Asp	Val
145					150					155					160

Val	Glu	Gly	Asn	Phe	Tyr	Ser	Ala	Thr	Leu	Ala	Gly	Asp	His	Cys	Phe
			165						170					175	

Asp	Val	Leu	Asp	Leu	His	Phe	His	Phe	Arg	His	Ala	Val	Gln	His	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4518

	180		185		190	
His Arg Asp Gly Val His Trp Asp Gln His Ala His Arg His Leu Ser						
195		200		205		
His Leu Leu Leu Thr His Val Ala Asp Ala Trp Gly Val Glu Leu Pro						
210		215		220		
Lys Arg Gly Tyr Pro Pro Gly Glu Pro Tyr His Lys Trp Gly Gly Ser						
225		230		235		240
Asp Ala Leu Gly Pro Ser Glu Asp Arg Ala Xaa Lys Gln Asn Gly Thr						
	245		250		255	
Gln Pro Leu Lys Gly Ser Xaa Gly Pro Leu Lys Asp Ser Cys Gly Phe						
	260		265		270	
Cys Met His Leu Xaa Xaa Pro Leu Arg						
275		280				

<210> 5006

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5006

Arg Tyr Tyr Leu Ile Ile Ile Lys Ile Arg Gly His Ser Phe Glu Pro
1 5 10 15

4519

Ser Leu Thr Phe Gln Phe Lys Leu Gly Pro Xaa Pro Ser Lys Xaa Leu
 20 25 30

Gly Phe Arg His Xaa Pro Leu Val Leu Ala Gly Leu Xaa
 35 40 45

<210> 5007

<211> 95

<212> PRT

<213> Homo sapiens

<400> 5007

Asn Met Tyr Gly Thr Ser Cys Leu Ile Leu His Val Thr Ser Leu Leu
 1 5 10 15

Tyr Ile Asp Glu Val Leu Val Thr Leu Ser Ser Asn Thr Leu Pro Leu
 20 25 30

Leu Phe Arg Glu Cys Leu Arg Asp Phe Leu Tyr Trp Phe Tyr Tyr Ser
 35 40 45

Asp Tyr Gly Leu Asp Leu Ser Ile Leu Leu Leu Pro Pro Gly Phe Leu
 50 55 60

Ile Ile His Pro Ser Lys Leu Ile Phe Cys Glu Ala Phe Val Ser Gln
 65 70 75 80

Ile Lys Thr Leu Leu Glu Pro Lys Val Val Ala Asp Gly Tyr Leu
 85 90 95

<210> 5008

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5008

Leu Pro Lys Gln Ile Leu Asp Arg His Cys Ile Tyr Trp Tyr Gly Ser
 1 5 10 15

Gly Leu Tyr Gly Val Val Cys Thr His Leu Gly Leu Phe Ser Leu Asn
 20 25 30

Pro Ala Pro Asn Glu Ser Gly Gly Arg Val His Ser Ile Ser Phe Asn
 35 40 45

Val Val Met His His Lys Leu Asn Ile Arg Met Lys Met Lys Leu Asp
 50 55 60

4520

Phe Asp Val Ser Leu Lys Pro Phe Pro Cys Pro Ile His Ser Pro Pro
 65 70 75 80

Pro Pro

<210> 5009

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5009

Ser Leu Ser Ser Pro Ala Val Lys Met Leu Ile Met Ile Leu Thr Leu
 1 5 10 15

Lys Ile Arg Pro His Lys Glu Gln Gly Asn Ser Arg Gly Gly Thr Gln
 20 25 30

Leu Gly Glu Ser Arg Pro Gly Gln Gly Lys Glu Thr His Lys Pro Asn
 35 40 45

Arg Ala Ala Leu Gly Lys Val Leu Ile Ser Trp Cys Cys Phe Leu Ser
 50 55 60

His Met Pro Ile Pro Gln Ala Val Pro Leu Ser Trp Leu Cys Arg Met
 65 70 75 80

Ser Ser Ser

<210> 5010

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5010

Tyr Pro Ser Val Thr Ser Gly Thr Phe Arg Arg Lys Pro Asn Ser Ser
 1 5 10 15

Val Trp Cys Thr Arg Ser Ser Asp Val Phe Pro Pro Pro Asn Val Leu
 20 25 30

Val Lys Gln Thr Tyr Thr Ser Ser Glu Ala Thr Phe Gly Gln Ala Ser
 35 40 45

Arg Leu Gly Lys Cys Cys Thr Leu Cys Ile Lys Cys Ala Ser His Pro

4521

50 55 60

Ser Pro Leu Gly Lys Phe Leu Cys Ile Leu Gln Ala

65 70 75

<210> 5011

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5011

Pro Ile Ile Pro Met Phe Thr Gln Asn Ile Arg Glu Gly Phe Arg Ser
1 5 10 15

Leu Gly Gly Thr Arg Leu Phe Arg Trp Leu Tyr Glu Lys Phe Arg Tyr
20 25 30

Pro Phe Ala Pro Met Tyr Gly Gly Phe Pro Val Lys Leu Arg Thr Tyr
35 40 45

Leu Gly Asp Pro Ile Pro Tyr Asp Pro Gln Ile Thr Ala Glu Glu Leu
50 55 60

Ala Glu Lys Thr Xaa Asn Ala Val Gln Ala Leu Ile Asp Lys His Gln
65 70 75 80

Arg Ile Pro Gly Asn Ile Met Ser Ala Leu Leu Glu Arg Phe His
85 90 95

<210> 5012

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5012

Ala Ala Arg Ala Leu Ser Leu Ser Leu Ser Pro Glu Val Asp Phe Pro
1 5 10 15

Val Pro Pro Gly Arg Gly Arg Ser Val Glu Ser Val Gln Ser Gln Pro
20 25 30

Gln Glu Pro Val Ser Val Pro Gln Thr Leu Thr Ser Thr Leu Glu His

4522

35 40 45
 Ile Val Gly Gln Leu Asp Val Leu Thr Gln Thr Val Ser Ile Leu Glu
 50 55 60
 Gln Arg Leu Thr Leu Thr Glu Asp Lys Leu Lys Gln Cys Leu Glu Asn
 65 70 75 80
 Gln Gln Leu Ile Met Gln Arg Ala Thr Pro
 85 90

<210> 5013

<211> 178

<212> PRT

<213> Homo sapiens

<400> 5013

His Glu Leu Arg Arg Arg Met Leu Glu Ala Ala Asp Phe Ala Ala Arg
 1 5 10 15
 Lys His Arg Gln Gln Arg Arg Lys Asp Pro Glu Gly Thr Pro Tyr Ile
 20 25 30
 Asn His Pro Ile Gly Val Ala Arg Ile Leu Thr His Glu Ala Gly Ile
 35 40 45
 Thr Asp Ile Val Val Leu Gln Ala Ala Leu Leu His Asp Thr Val Glu
 50 55 60
 Asp Thr Asp Thr Thr Leu Asp Glu Val Glu Leu His Phe Gly Ala Gln
 65 70 75 80
 Val Arg Arg Leu Val Glu Glu Val Thr Asp Asp Lys Thr Leu Pro Lys
 85 90 95
 Leu Glu Arg Lys Arg Leu Gln Val Glu Gln Ala Pro His Ser Ser Pro
 100 105 110
 Gly Ala Lys Leu Val Lys Leu Ala Asp Lys Leu Tyr Asn Leu Arg Asp
 115 120 125
 Leu Asn Arg Cys Thr Pro Glu Gly Trp Ser Glu His Arg Val Gln Glu
 130 135 140
 Tyr Phe Glu Trp Ala Ala Gln Val Val Lys Gly Leu Gln Gly Thr Asn
 145 150 155 160
 Arg Gln Leu Glu Glu Ala Leu Lys His Leu Phe Lys Gln Arg Gly Leu
 165 170 175

4523

Thr Ile

<210> 5014

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5014

Thr	Ile	Phe	Ala	Val	Met	Xaa	Ser	Phe	Asn	Val	Ser	Phe	Gln	Xaa	Gly
1				5					10					15	

Pro	Ile	Lys	Val	Phe	Leu	Tyr	Leu	Val	Asn	Lys	Asp	His	Ser	Cys	Gly
			20					25					30		

Leu	Val	Arg	Gly	Cys	Ile	His	Arg	Leu	Trp	Glu	Ala	Val	Val	Cys	Val
		35					40					45			

Cys	Val	Ser	Ile	Ser	Ile	Phe	Tyr	Val	Tyr	Asn	Ser	Ala	Tyr
	50					55					60		

<210> 5015

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5015

Ser	Thr	Ala	Leu	Gly	Ala	Gly	Gly	Ala	Phe	Ser	Val	Pro	Leu	Leu	Ser
1				5				10						15	

Leu	Leu	Ser	Ala	Ser	Leu	Val	Leu	Pro	Ala	His	Phe	His	Asn	Val	Leu
			20					25					30		

Leu	Gly	Cys	Ile	Gly	Ile	Val	Cys	Cys	Leu	Asp	Pro	Trp	Pro	Arg	Leu
		35					40					45			

4524

Ser Leu Pro Val Arg Glu Thr Lys Leu Thr Thr Lys Gly Phe Cys Gln
 50 55 60

Ile Ala Phe Ile Tyr Arg Ile Cys Pro Phe Met Cys Leu Cys Val Tyr
 65 70 75 80

Gly Leu Asn Gly Phe Leu Thr Ser Lys Lys
 85 90

<210> 5016

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5016

Val Tyr Arg Val Leu Lys Pro Leu Lys Xaa Asn Ala Asn Xaa Ala Lys
 1 5 10 15

Ser Leu Leu Leu Thr Thr Ile Pro Gln Ile Gly Ser Thr Glu Trp Ser
 20 25 30

Glu Thr Leu Xaa Asn Leu Lys Asn Met Ala Gln Phe Ser Val Leu Leu
 35 40 45

Pro Arg His
 50

<210> 5017

<211> 333

<212> PRT

<213> Homo sapiens

4525

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5017

Gly	Arg	Arg	Ala	Gln	Arg	Ser	Thr	Pro	Arg	Ser	Leu	Ala	Arg	Val	Ser
1				5				10					15		
Gln	Arg	Gly	Pro	Thr	Arg	Tyr	Ala	Asp	Ala	Pro	Thr	Pro	Ile	Arg	Pro
			20					25					30		
Ser	Gln	Asp	Ser	Thr	Met	Thr	Leu	Asn	Asn	Val	Thr	Met	Arg	Gln	Gly
		35					40					45			
Thr	Val	Gly	Met	Gln	Pro	Gln	Gln	Gln	Arg	Trp	Ser	Ile	Pro	Ala	Asp
	50					55					60				
Gly	Arg	His	Leu	Met	Val	Gln	Lys	Glu	Pro	His	Gln	Tyr	Ser	His	Arg
65					70					75					80
Asn	Arg	His	Ser	Ala	Thr	Pro	Glu	Asp	His	Cys	Arg	Arg	Ser	Trp	Ser
				85					90						95
Ser	Asp	Ser	Thr	Asp	Ser	Val	Ile	Ser	Ser	Glu	Ser	Gly	Asn	Thr	Tyr
			100					105					110		
Tyr	Arg	Val	Val	Leu	Ile	Gly	Glu	Gln	Gly	Val	Gly	Lys	Ser	Thr	Leu
		115					120					125			
Ala	Asn	Ile	Phe	Ala	Gly	Val	His	Asp	Ser	Met	Asp	Ser	Asp	Cys	Xaa
		130				135					140				
Val	Leu	Gly	Glu	Asp	Thr	Tyr	Glu	Arg	Thr	Leu	Met	Val	Asp	Gly	Glu
145					150					155				160	
Ser	Ala	Thr	Ile	Ile	Leu	Leu	Asp	Met	Trp	Glu	Asn	Lys	Gly	Glu	Asn
				165				170						175	
Glu	Trp	Leu	His	Asp	His	Cys	Met	Gln	Val	Gly	Asp	Ala	Tyr	Leu	Ile
			180					185					190		
Val	Tyr	Ser	Ile	Thr	Asp	Arg	Ala	Ser	Phe	Glu	Lys	Ala	Ser	Glu	Leu
			195				200					205			
Arg	Ile	Gln	Leu	Arg	Arg	Ala	Arg	Gln	Thr	Glu	Asp	Ile	Pro	Ile	Ile
		210				215					220				
Leu	Val	Gly	Asn	Lys	Ser	Asp	Leu	Val	Arg	Cys	Arg	Glu	Val	Ser	Val
225					230					235				240	

4526

Ser Glu Gly Arg Ala Cys Ala Val Val Phe Asp Cys Lys Phe Ile Glu
245 250 255

Thr Ser Ala Ala Val Gln His Asn Val Lys Glu Leu Phe Glu Gly Ile
260 265 270

Val	Arg	Gln	Val	Arg	Leu	Arg	Arg	Asp	Ser	Lys	Glu	Lys	Asn	Glu	Arg
		275					280					285			

Arg Leu Ala Tyr Gln Lys Arg Lys Glu Ser Met Pro Arg Lys Ala Arg
290 295 300

Arg Phe Trp Gly Lys Ile Val Ala Lys Asn Asn Lys Asn Met Ala Phe
305 310 315 320

Lys Leu Lys Ser Lys Ser Cys His Asp Leu Ser Val Leu
325 330

<210> 5018

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5018

Glu Pro Leu Trp Glu Asn Leu Phe Leu Pro Pro Leu Gly Lys Gln Lys
1 5 10 15

Asn Phe Ser Val Phe Gly Glu Tyr Phe Arg Asn Ser Asn Glu Arg His
20 25 30

Cys Phe Ser Cys Trp Leu Thr Gly Leu Lys Gly Ala Phe Val Leu Leu
35 40 45

Gly Gln Gly Glu Arg Gly Asp Pro Arg Lys Val Ser Leu Pro Glu Asp
50 55 60

Gly Gln Pro Pro Gly Leu Gln Leu Gln Val His Ile Thr Arg Thr Ala
65 70 75 80

Trp Gln Pro Gly Pro Pro Gly Ala His Ser Arg Gln Pro Leu Pro Arg
85 90 95

Gly Leu Ile Leu Gln
100

<210> 5019

<211> 52

4527

<212> PRT

<213> Homo sapiens

<400> 5019

Arg Tyr Leu Ile Ser Leu Ser Cys Asn Leu Tyr Leu Gln Thr Gly Val
 1 5 10 15

Ser Asn Pro Ile Asn Leu Ile Ala Asp Ile Val Arg Lys Asn Glu Met
 20 25 30

Thr Ser Val Lys Thr Gln Asn Tyr Thr Tyr Lys Val Ser Arg Gln Asn
 35 40 45

Met Leu Leu Leu
 50

<210> 5020

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5020

Pro Val Asp Ser Cys Ala Val Ser Pro Gly Val Ala Lys Glu Ala Ala
 1 5 10 15

Ser Gly Ser Trp Gly Leu Val Ala Arg Ser Gln Gln Glu Cys Leu Leu
 20 25 30

Tyr Phe Val Arg Asp Ala Glu Gln Ile Ser Asn Ser Val Ala Val Met
 35 40 45

Leu Ala Ser
 50

<210> 5021

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5021

Thr Ser Ser Thr Ile Asn Cys Ser Leu Gly Thr Phe Tyr Ala Gln Asn
 1 5 10 15

Cys Ala Pro Ser Ser Glu Gln Gln Val Phe Asn Gly Pro Cys Asp Glu
 20 25 30

Lys Gly Pro Ile Lys Ala Ala Gly Met Gly His Ser Pro Thr Pro His

4528

35 40 45
 Gly Pro Gly His Cys His Ser Cys Cys Pro Ala Ser Pro Gly Leu Trp
 50 55 60
 Leu His Gly Arg Ser His Phe Cys Lys Lys Phe Thr Phe Leu Lys
 65 70 75

<210> 5022

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5022

Asn Leu Lys Pro Pro Leu Glu Pro Pro Phe Cys Arg Val Phe Gly Lys
 1 5 10 15
 Arg Lys Lys Gly Leu Cys Leu Arg Leu Trp Gly Arg Gly Asp Tyr Val
 20 25 30
 Thr Ser Val Gln Thr Ala Gly Asn Leu Lys Thr Val Leu Ser Leu Phe
 35 40 45
 Leu Tyr Ile Val Phe Ile Tyr Lys Lys Lys Arg Leu Arg Met His Ala
 50 55 60
 Lys Leu Leu Phe Ser Val Ser His Arg Pro Arg Trp Asn Val Lys
 65 70 75

<210> 5023

<211> 141

<212> PRT

<213> Homo sapiens

<400> 5023

Leu Leu Gln Val Asp Phe His Asn Met Gln Ser Gly Gly Gly Val Lys
 1 5 10 15
 Thr Asp Asp Thr Ser Thr Leu Asn Ser Leu Cys Gly Tyr Ala Trp Val
 20 25 30
 Tyr Val Trp Glu Glu Lys Gln Arg Cys Arg Leu Ser Ser Phe Phe Ser
 35 40 45
 Ser Ser Ala Ser Ile Pro Gly Leu Leu Pro Ser His Thr Leu Asp Leu
 50 55 60

4529

Val Gln Asn Val Gly Val Val Leu Asp Glu Ala Leu Gly Trp Gly Arg
 65 70 75 80

Glu Arg Glu Leu Cys Val Lys Cys Leu Leu Glu Met His Cys Gly Val
 85 90 95

Phe Ser Cys Met Gly Asn His Leu Cys Gln Ala Phe Pro His Phe Pro
 100 105 110

Tyr Leu Ser His Leu Val Ser Cys Leu Cys Phe Gln Leu Cys Val Ile
 115 120 125

Leu Phe Ala Ser Cys Thr Lys Leu Ile Phe Ser Lys Val
 130 135 140

<210> 5024

<211> 30

<212> PRT

<213> Homo sapiens

<400> 5024

Gly Thr Arg Val Ser Asp Leu Ala Thr Ile Ser Leu Gly Ser Cys Gln
 1 5 10 15

Asn Leu Ile Phe Ser Leu Lys Thr Pro Ile Cys Ser His Ser
 20 25 30

<210> 5025

<211> 241

<212> PRT

<213> Homo sapiens

<400> 5025

Ile Phe Gly Met Ser Lys Leu Arg Met Val Leu Leu Glu Asp Ser Gly
 1 5 10 15

Ser Ala Asp Phe Arg Arg His Phe Val Asn Leu Ser Pro Phe Thr Ile
 20 25 30

Thr Val Val Leu Leu Leu Ser Ala Cys Phe Val Thr Ser Ser Leu Gly
 35 40 45

Gly Thr Asp Lys Glu Leu Arg Leu Val Asp Gly Glu Asn Lys Cys Ser
 50 55 60

Gly Arg Val Glu Val Lys Val Gln Glu Glu Trp Gly Thr Val Cys Asn
 65 70 75 80

4530

Asn Gly Trp Ser Met Glu Ala Val Ser Val Ile Cys Asn Gln Leu Gly
 85 90 95
 Cys Pro Thr Ala Ile Lys Ala Pro Gly Trp Ala Asn Ser Ser Ala Gly
 100 105 110
 Ser Gly Arg Ile Trp Met Asp His Val Ser Cys Arg Gly Asn Glu Ser
 115 120 125
 Ala Leu Trp Asp Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys
 130 135 140
 Thr His Cys Glu Pro Arg Asn Ala Thr Pro Trp Lys Pro His Thr Leu
 145 150 155 160
 Leu Ser Pro Ser Val Leu Ile Pro Val Leu Leu Thr Val Ser Pro Ser
 165 170 175
 Trp Leu Phe Leu Glu Ser Leu Ser Phe Pro His Phe His Phe Leu Pro
 180 185 190
 Leu Tyr Cys His Leu Trp Pro Gly Phe Ala Leu Leu Val Gln His Pro
 195 200 205
 Gln Leu Gln His Leu Cys Leu Ser Ala Pro Ser Thr Arg Gln Lys Leu
 210 215 220
 Thr Leu Glu Asn Ile Arg His Ser Glu Ser Arg Val Leu Gly Ser Asp
 225 230 235 240
 Gly

<210> 5026

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

4531

<400> 5026

Ile Arg Gln Cys Val Lys His Trp His Thr Asn Ala Ala Lys Gly Ala
 1 5 10 15

Glu Gly Arg Gln Trp Gly Gly Ala Gly Thr Gln Gln Gly Ala Leu Pro
 20 25 30

Arg Asp Thr Leu Val Ile Phe Ser Thr Glu Xaa His Pro Xaa Ala Phe
 35 40 45

Leu Gln His Leu
 50

<210> 5027

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5027

Gly Gly Ser Glu Asp Gln Leu Glu Asp Pro Ala Leu Ser Gly Lys Ala
 1 5 10 15

Trp Glu Cys Glu Met Gly Arg Arg Gly Trp Asp Leu Gly Gly Trp Gly
 20 25 30

Gln Ala Leu Ser Pro Ser Leu Leu Ala Phe Gln Ser Leu Gly Arg Asn
 35 40 45

Leu Ser Xaa Leu Pro Pro Leu Ser Leu Ala His Arg His Pro Ala Cys
 50 55 60

Ile Ser Gln Glu Glu Val Glu Gly Thr Ser Leu Phe Pro Arg Asn Pro
 65 70 75 80

Leu Tyr Pro His Pro Val Leu Cys Ser Ser Pro Arg Leu Leu Gly Leu
 85 90 95

Arg Leu Leu Thr Ser Arg Arg Leu Arg Leu Val Cys Val Cys Leu Phe
 100 105 110

Ala His Leu Trp Leu Ile Pro Arg Glu Pro Gly His Leu Leu Pro Asp
 115 120 125

Ala His Pro Cys Gln Ser Phe Leu His Ser Pro Ser Gly Arg Trp Asp

4532

130 135 140
 Val Arg Gln Pro Thr Leu Glu Asn Pro Glu Asn Arg Glu Gln Gly Phe
 145 150 155 160
 Ala Leu His Asn Ser Thr Pro Gln Ile Leu Ser Pro Gly His Arg Arg
 165 170 175
 Pro Thr Gly Gln Asp Pro Lys Ile Trp Gly Lys Glu Val Leu Arg Thr
 180 185 190
 Leu Arg Tyr Pro
 195

<210> 5028

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5028

Met Phe Leu Asp Gly Gly Leu Pro Ser Ser Lys Leu Leu Pro Ile Cys
 1 5 10 15

Thr Ser Val Leu Gly Gln Gly Lys Xaa Lys Ala Arg Ser Cys Lys Ser
 20 25 30

His Ser Ser Gly Ser Gln Phe His Pro Gln Phe Lys Glu Leu Ser Arg
 35 40 45

Gln Arg Gln Arg Leu Tyr Ser Thr His Val Gln Leu Lys Ala Gly Glu
 50 55 60

Ala Lys Pro Gly Gln Arg Lys Gly Lys Gly Cys Val
 65 70 75

<210> 5029

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4533

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5029

Pro Glu Ile Ala Pro Asn Gly Gln Ser Leu Val Lys Gln Leu His Glu
 1 5 10 15

Arg Gln Leu Asp Leu Pro Tyr Leu Pro Leu Lys Arg Pro Lys Trp Thr
 20 25 30

Asn Xaa Ser Ser Gln Leu Leu Gly Tyr Phe Thr Leu Ala Leu Tyr Thr
 35 40 45

Ser Ala Pro Ser Lys Leu Lys Gly Asp Leu Asn Tyr Leu Arg Leu Glu
 50 55 60

Trp Gly Pro Asp Phe Gln Gln His Glu Ala Gly Leu Ile Gly Ala Asp
 65 70 75 80

Glu Val Pro Ile Leu Thr Xaa Ser Ser Ala Glu Leu Ala Gln Gln Gln
 85 90 95

Ile Ala Met Leu Asn Gly Cys Thr Trp Leu Pro Val Ser Trp Ala Arg
 100 105 110

Lys Lys Gly Gly Leu His Thr Val Val Asp Ser Thr Thr Leu Ser Arg
 115 120 125

Pro Leu
 130

<210> 5030

<211> 132

<212> PRT

<213> Homo sapiens

<400> 5030

Leu Val His Pro Pro Arg Asn Phe Leu Asp Ala Val Arg Ala Arg Trp
 1 5 10 15

Cys Tyr Leu Glu Leu Lys Lys Leu His Ala Ser Val Lys Leu Leu Thr
 20 25 30

Met Ala Lys Asn Lys Leu Arg Gly Pro Lys Ser Arg Asn Val Phe His

4534

35 40 45
 Ile Ala Ser Gln Lys Asn Phe Lys Ala Lys Asn Lys Ala Lys Pro Val
 50 55 60
 Thr Thr Asn Leu Lys Lys Ile Asn Ile Met Asn Glu Glu Lys Val Asn
 65 70 75 80
 Arg Val Asn Lys Ala Phe Val Asn Val Gln Lys Glu Leu Ala His Phe
 85 90 95
 Ala Lys Ser Ile Ser Leu Glu Pro Leu Gln Lys Glu Leu Ile Pro Gln
 100 105 110
 Gln Arg His Glu Ser Lys Pro Val Asn Val Asp Glu Ala Thr Arg Leu
 115 120 125
 Met Ala Leu Leu
 130

<210> 5031
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 5031
 Arg Glu Cys Val Cys Thr Phe Ser Leu Tyr Lys Gly Gln Gly Val Gly
 1 5 10 15
 Gln Ile His His Arg Leu Ile Tyr Ile Phe Cys Cys Asp Phe Phe Gln
 20 25 30
 Leu Tyr Asn Lys Cys Gln Leu Ile Val His Gly Thr Ile Tyr Phe Ser
 35 40 45
 Thr Gln Phe Ile Val Leu Ser Arg Glu Arg Phe Ile Tyr Phe His Tyr
 50 55 60
 Leu Ala Leu Ser
 65

<210> 5032
 <211> 142
 <212> PRT
 <213> Homo sapiens
 <220>

4535

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5032

Pro Thr Arg Pro Ala Ser Xaa Gly Cys Gly Leu Pro Leu Ser Leu Leu
 1 5 10 15

Arg Ala Val Thr Pro Val Pro Ala Ala Ile Arg Pro Gly Ala Pro Asp
 20 25 30

Glu Ser Met Arg Gly Arg Ala Arg Gly Val Val Phe Pro Arg Thr Pro
 35 40 45

Gly Gly Leu Pro Arg Pro Val Leu Cys Thr Ser Ser Pro Thr Lys Gly
 50 55 60

Glu Thr Glu Ala Pro Arg Gly Val Gly Arg Ala Gly Trp Thr Ser Gly
 65 70 75 80

Pro Ala Ala Gly Ala Val Val Arg Pro Leu Cys Arg Gly Gly Pro Leu
 85 90 95

Gly Phe Arg Val Ser Ser Gly Lys Arg Leu Ala Gly Leu Val Gly Cys
 100 105 110

Ala Ala Ile Leu Glu Thr Asp Asp Ser Ser Pro Xaa Asp Gly Phe Ala
 115 120 125

Gly Ser Ala Pro Ala Ser Ala Pro Ile Phe Pro Ala Ala Pro
 130 135 140

<210> 5033

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4536

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5033

Arg	Val	Met	Ser	Ala	Val	Leu	Leu	Leu	Ala	Leu	Leu	Gly	Phe	Ile	Leu
1				5					10					15	

Pro	Leu	Pro	Gly	Val	Gln	Ala	Leu	Leu	Cys	Gln	Phe	Gly	Thr	Val	Gln
			20					25					30		

His	Val	Trp	Lys	Val	Ser	Asp	Leu	Pro	Arg	Gln	Trp	Thr	Pro	Lys	Asn
			35				40					45			

Thr	Ser	Cys	Asp	Ser	Gly	Leu	Gly	Cys	Gln	Asp	Thr	Leu	Met	Leu	Ile
	50					55					60				

Glu	Ser	Gly	Pro	Gln	Val	Ser	Leu	Val	Leu	Ser	Lys	Gly	Cys	Thr	Glu
65					70					75					80

Ala	Lys	Asp	Gln	Glu	Pro	Arg	Val	Thr	Glu	His	Arg	Met	Gly	Pro	Gly
				85					90					95	

Leu	Ser	Leu	Ile	Ser	Tyr	Thr	Phe	Val	Cys	Arg	Gln	Glu	Asp	Phe	Cys
			100					105					110		

Asn	Asn	Leu	Val	Asn	Ser	Leu	Pro	Leu	Trp	Ala	Pro	Gln	Pro	Pro	Ala
		115					120					125			

Asp	Pro	Gly	Ser	Leu	Arg	Cys	Pro	Val	Cys	Leu	Ser	Met	Glu	Gly	Cys
	130					135					140				

Leu	Glu	Gly	Thr	Thr	Glu	Glu	Ile	Cys	Pro	Lys	Gly	Thr	Thr	His	Cys
145					150					155					160

Tyr	Asp	Gly	Leu	Leu	Arg	Leu	Arg	Gly	Gly	Gly	Ile	Phe	Ser	Asn	Leu
			165					170						175	

Arg	Val	Gln	Gly	Cys	Met	Pro	Gln	Pro	Gly	Cys	Asn	Leu	Leu	Asn	Gly
			180					185					190		

Thr	Gln	Glu	Ile	Gly	Pro	Val	Gly	Met	Thr	Glu	Asn	Cys	Asn	Arg	Lys
		195					200					205			

Asp	Phe	Leu	Thr	Cys	His	Arg	Gly	Thr	Thr	Ile	Met	Thr	His	Gly	Asn
	210					215					220				

4537

Leu Ala Gln Glu Pro Thr Asp Trp Thr Thr Ser Asn Tyr Arg Asp Val
 225 230 235 240

Arg Xaa Gly Ala Gly Val Ser Xaa Xaa Ala Ala Ala Pro Arg Cys
 245 250 255

<210> 5034

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5034

His Glu Gly Arg Arg Lys Lys Trp Met Leu Glu Ser Cys Xaa Met Ser
 1 5 10 15

Leu Trp Ile Ala Gln Lys Tyr Gln Leu Trp Leu Xaa Pro His Leu Ala
 20 25 30

Phe Val Ser Met Lys Lys Pro Gly Thr Ile Ser Thr Thr Ile Ser Asp
 35 40 45

His His Gln Pro Gln Ile Leu Gly Asn Leu Leu Glu Phe Phe Leu Asn
 50 55 60

Val Leu Asn Ser Cys Trp Val Pro Gly Arg Phe Gln Arg Lys
 65 70 75

<210> 5035

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

4538

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5035

Phe Gly Ala Ser Ser Leu Ser Ser Cys Arg Pro Ile Thr Ile Val Pro
1 5 10 15

Xaa Gly Lys Lys Trp Ser Pro Ala Pro Ser Pro Val Ala Leu Xaa Xaa
20 25 30

Thr Gly Asn Pro Phe Gly
35

<210> 5036

<211> 43

<212> PRT

<213> Homo sapiens

<400> 5036

Ser Arg Pro Phe Glu Glu Ile Tyr Glu Trp Asp Ile Lys Gln Phe Ser
1 5 10 15

Val Leu Gln Val Phe Phe Phe Phe Ser Lys Leu Phe Ala Val Ser Asn
20 25 30

Cys Asn Gln Tyr Leu Leu Leu Ser Ile Cys Leu
35 40

<210> 5037

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5037

Ala Gly Phe Ser Val Ile Ala Thr Phe Ala Tyr Phe Phe Pro Tyr Phe

4539

1	5	10	15
Pro Cys Leu Leu Met Leu Asn Ser Met Asn Leu Leu Ser Asp Ala Val			
20	25	30	
Leu Asp Cys Pro Cys Cys Ile Ser Ile Ile Ser Leu Phe Ser Phe Ser			
35	40	45	
Leu Tyr Tyr Tyr Asn Cys Ser Phe Tyr Met Lys Ala Arg Lys Leu Xaa			
50	55	60	
Leu Glu Glu His Leu Ser Ala Thr Cys Gln Phe Cys Val Ser Val Leu			
65	70	75	80
Tyr Val Cys Val Asn Phe Pro Leu Lys			
85			

<210> 5038

<211> 176

<212> PRT

<213> Homo sapiens

<400> 5038

Gly Pro Arg Gln Gly Asp His Leu Arg Ser Gly Val Ser Thr Lys Asn			
1	5	10	15
Thr Lys Ile Arg Gln Val Trp Trp Trp Ala Pro Leu Arg Arg Leu Arg			
20	25	30	
Gln Glu Asn His Leu Asn Pro Gly Gly Arg Gly Cys Ser Glu Pro Asp			
35	40	45	
His Ala Ala Ala Leu Gln Pro Gly Arg Ser Pro Cys Val Leu Leu Gly			
50	55	60	
Ala Gly Ala Val Thr Tyr Pro Leu Ser Phe Ser Leu Ala Ile Ser Val			
65	70	75	80
Val Ser Tyr Glu Ala Glu Ile Gly Lys Gly Tyr Met Gln Val Ser Gln			
85	90	95	
Trp Thr Trp Pro Met Leu Gln Ala Pro Ser Ser Gln Val Gln Gln Cys			
100	105	110	
Tyr His Leu Leu Leu Leu Gly Gly Gln Thr Arg His Pro His His Glu			
115	120	125	
Gly Ala Ala Gly Thr Met Asn Tyr Val Asn Asn Pro Ser Leu Tyr Tyr			
130	135	140	

4540

Arg Lys Gly Cys Ser His Met Arg Ile Gln Ser Thr Gln Ala Pro Trp
 145 150 155 160

Pro Cys Ser Pro Leu Gln Pro Gln Gly Ser Gly Ser Pro Ile Trp Arg
 165 170 175

<210> 5039

<211> 274

<212> PRT

<213> Homo sapiens

<400> 5039

Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp
 1 5 10 15

Arg Pro Arg Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro
 20 25 30

Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg
 35 40 45

Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser
 50 55 60

Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg
 65 70 75 80

Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu
 85 90 95

Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys
 100 105 110

Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His
 115 120 125

Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr
 130 135 140

Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala
 145 150 155 160

Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys
 165 170 175

4541

Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu
 180 185 190

Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp
 195 200 205

Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val
 210 215 220

Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala
 225 230 235 240

Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys
 245 250 255

Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly
 260 265 270

Val Asp

<210> 5040

<211> 23

<212> PRT

<213> Homo sapiens

<400> 5040

Thr Leu Lys Ile Glu Val Pro His Asp Pro Ala Ile Pro Leu Leu Asp
 1 5 10 15

Ile Tyr Pro Arg Asn Lys Lys
 20

<210> 5041

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5041

Ala Arg Phe Ile Lys Leu Ile Phe Phe Ile Leu Val Val Lys Ser Ser
 1 5 10 15

4542

Leu Ile Ala Phe Cys Gln Leu Asp Phe Xaa Val Cys Val Ile Phe Lys
 20 25 30

Gly Arg Met Thr Gly Gln Ile Ser Asn Lys Lys Cys Ile Glu Leu Glu
 35 40 45

Asn Ile Val Val Pro Ser Tyr Pro Trp Asp Ile Arg Ser Lys Thr Pro
 50 55 60

Ser Glu Arg Leu Lys Pro Trp Ile Val
 65 70

<210> 5042

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5042

Ala Asp Val Glu Ser Pro Glu Leu Ile Ser Asn Phe Leu Pro Phe Pro
 1 5 10 15

Phe Pro Ser Pro Ser Leu Pro Phe Pro Phe Ser Pro Leu Pro Ser Pro
 20 25 30

Xaa Phe Pro Ser Pro
 35

<210> 5043

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5043

Glu Gly Arg Leu Arg Gln Gly Arg Val Arg Glu His Cys Arg Gly Glu
 1 5 10 15

Glu Gly Ile His Phe Leu Val Ile Ser Phe His Ser Lys Arg Val Ser
 20 25 30

Gln Asn Arg Trp Pro Gly Thr Gly Glu Leu Gly Arg Ala Arg Arg Glu
 35 40 45

4543

Ile Ser Ala Cys Val Arg Lys Asp Gly Arg Ala Gly Leu Glu Pro Leu
 50 55 60

Leu Asp Tyr Leu Gln Ser Phe Cys Ser Thr Leu Lys Val Asn Gln Cys
 65 70 75 80

Leu Gln Thr Phe Pro Asp Thr
 85

<210> 5044

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5044

Ile Asn Thr Ile Ile Phe Ile Trp Lys Phe Tyr Arg Arg Ala Ile Ser
 1 5 10 15

Val Tyr Val Ile Thr Pro Asp Phe Leu Lys Leu Leu Leu Val Asp Asn
 20 25 30

Arg Gln Val Leu Ser Ser Val Pro Leu Arg Val Val Pro Gly Leu Pro
 35 40 45

Ala Val Glu Leu Thr Gly Gly Ile Leu Gln Phe Cys Asp Pro Arg Met
 50 55 60

Arg Pro Arg Arg Ser Val Arg Ser Ala Gly Gly Gly Ala Trp Glu Ala
 65 70 75 80

Val Phe Val Met Asn Ser Gly Val Phe Cys Pro Leu Lys Cys Ile Phe
 85 90 95

Val His Pro Ile Arg Leu Lys Glu Arg Lys Ser Ile Ser Asn Glu Cys
 100 105 110

Lys Leu Phe Leu Arg Lys Lys Cys Ile Arg Leu Leu
 115 120

<210> 5045

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (121)

4544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5045

Asp Gln Gly Gly Glu Trp Lys His Gly Arg Ile Ile Leu Pro Ser Tyr
1 5 10 15

Asp Met Glu Tyr Gln Ile Val Phe Glu Gly Val Ile Gly Lys Gly Arg
20 25 30

Ser Gly Glu Ile Ala Ile Asp Asp Ile Arg Ile Ser Thr Asp Val Pro
35 40 45

Leu Glu Asn Cys Met Glu Pro Ile Ser Ala Phe Ala Gly Gly Thr Leu
50 55 60

Leu Pro Gly Thr Glu Pro Thr Val Asp Thr Val Pro Met Gln Pro Ile
65 70 75 80

Pro Ala Tyr Trp Tyr Tyr Val Met Ala Ala Gly Gly Ala Val Leu Val
85 90 95

Leu Val Ser Val Ala Leu Ala Leu Val Leu His Tyr His Arg Phe Arg
100 105 110

Tyr Ala Ala Lys Lys Thr Asp His Xaa Ile Thr Tyr Lys Thr Phe His
115 120 125

Tyr Thr Asn Gly Ala Pro Leu Ala Val Glu Xaa
130 135

<210> 5046

<211> 201

<212> PRT

<213> Homo sapiens

<400> 5046

Ala Leu Ile Met Ser Phe Ile Phe Glu Trp Ile Tyr Asn Gly Phe Ser
1 5 10 15

Ser Val Leu Gln Phe Leu Gly Leu Tyr Lys Lys Ser Gly Lys Leu Val
20 25 30

Phe Leu Gly Leu Asp Asn Ala Gly Lys Thr Thr Leu Leu His Met Leu
35 40 45

4545

Lys Asp Asp Arg Leu Gly Gln His Val Pro Thr Leu His Pro Thr Ser
 50 55 60
 Glu Glu Leu Thr Ile Ala Gly Met Thr Phe Thr Thr Phe Asp Leu Gly
 65 70 75 80
 Gly His Glu Gln Ala Arg Arg Val Trp Lys Asn Tyr Leu Pro Ala Ile
 85 90 95
 Asn Gly Ile Val Phe Leu Val Asp Cys Ala Asp His Ser Arg Leu Val
 100 105 110
 Glu Ser Lys Val Glu Leu Asn Ala Leu Met Thr Asp Glu Thr Ile Ser
 115 120 125
 Asn Val Pro Ile Leu Ile Leu Gly Asn Lys Ile Asp Arg Thr Asp Ala
 130 135 140
 Ile Ser Glu Glu Lys Leu Arg Glu Ile Phe Gly Leu Tyr Gly Gln Thr
 145 150 155 160
 Thr Gly Lys Gly Asn Val Thr Leu Lys Glu Leu Asn Ala Arg Pro Met
 165 170 175
 Glu Val Phe Met Cys Ser Val Leu Lys Arg Gln Gly Tyr Gly Glu Gly
 180 185 190
 Phe Arg Trp Leu Ser Gln Tyr Ile Asp
 195 200

<210> 5047

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5047

Lys Glu Gly Ile Leu Phe Val Thr Tyr Pro Asp Gly Arg Pro Thr Gly
 1 5 10 15

Asp Ala Phe Val Leu Phe Ala Cys Glu Glu Tyr Ala Gln Asn Ala Leu
 20 25 30

Arg Lys His Lys Asp Leu Leu Gly Lys Arg Tyr Ile Glu Leu Phe Arg

35

45

Glu Ile Leu Asn Phe Phe Gln Gly Tyr Gln Cys Leu Lys Asp Val Trp
290 295 300

4547

<210> 5048

<211> 254

<212> PRT

<213> Homo sapiens

<400> 5048

Trp Cys Ile Phe Asp Tyr Met Ala Val Tyr Arg Met Cys Cys Pro Tyr
 1 5 10 15

Thr Arg Arg Ala Ser Lys Ser Ser Arg Pro Met Tyr Gly Ala Val Thr
 20 25 30

Ser Phe Leu His Ser Leu Ile Ile Gln Asn Glu Pro Arg Phe Ala Met
 35 40 45

Phe Gly Pro Gly Leu Glu Glu Leu Asn Thr Ser Leu Val Leu Ser Leu
 50 55 60

Met Ser Ser Glu Glu Leu Cys Pro Thr Ala Gly Leu Pro Gln Arg Gln
 65 70 75 80

Ile Asp Gly Ile Gly Ser Gly Val Asn Phe Gln Leu Asn Asn Gln His
 85 90 95

Lys Phe Asn Ile Leu Ile Leu Tyr Ser Thr Thr Arg Lys Glu Arg Asp
 100 105 110

Arg Ala Arg Glu Glu His Thr Ser Ala Val Asn Lys Met Phe Ser Arg
 115 120 125

His Asn Glu Gly Asp Asp Gln Gln Gly Ser Arg Tyr Ser Val Ile Pro
 130 135 140

Gln Ile Gln Lys Val Cys Glu Val Val Asp Gly Phe Ile Tyr Val Ala
 145 150 155 160

Asn Ala Glu Ala His Lys Arg His Glu Trp Gln Asp Glu Phe Ser His
 165 170 175

Ile Met Ala Met Thr Asp Pro Ala Phe Gly Ser Ser Gly Arg Pro Leu
 180 185 190

Leu Val Leu Ser Cys Ile Ser Gln Gly Asp Val Lys Arg Met Pro Cys
 195 200 205

Phe Tyr Leu Ala His Glu Leu His Leu Asn Leu Leu Asn His Pro Trp
 210 215 220

4548

Leu Val Gln Asp Thr Glu Ala Glu Thr Leu Thr Gly Phe Leu Asn Gly
 225 230 235 240

Ile Glu Trp Ile Leu Glu Glu Val Glu Ser Lys Arg Ala Arg
 245 250

<210> 5049

<211> 45

<212> PRT

<213> Homo sapiens

<400> 5049

Phe Leu Ile Val His Lys Pro Leu Thr Lys Glu Ser Glu Ile Ser Pro
 1 5 10 15

Ser Val Lys Arg Lys Gln Ala Met Lys Cys Tyr Ile Cys Arg Leu Lys
 20 25 30

Ser Lys Leu Val Cys Phe Leu Lys Asn Leu Asn Gln Asp
 35 40 45

<210> 5050

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5050

Ser Cys Val Ser Ala Val Asp Thr Asn Ile Lys Cys Leu Val His Leu
 1 5 10 15

Lys Ser Leu Ser Leu Pro Tyr Met Gly Glu Thr Gln Ser Pro Ser Leu
 20 25 30

Cys Trp Lys Tyr His Gln Thr Asp Cys Lys Cys Ala Ala Val Ala Asp
 35 40 45

Ile Leu Val Trp Trp Cys Ala Ala Ile Ser Ala Leu His Leu Pro Xaa
 50 55 60

Trp Leu Pro Tyr Ser Cys Val Pro Ile Phe Ala Ser Met Leu Gly Val
 65 70 75 80

4549

Pro His Leu Leu His Phe Pro Ala Cys Asn Gln Glu Leu Thr
 85 90

<210> 5051

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5051

Val Gly Pro Gly Ala Ala Trp Arg Arg Pro His Ser Gly Ile Met Ala
 1 5 10 15

Gln Val Ala Met Ser Thr Leu Pro Val Glu Asp Glu Glu Ser Ser Glu
 20 25 30

Ser Arg Met Val Val Thr Phe Leu Met Ser Ala Leu Glu Ser Met Cys
 35 40 45

Lys Glu Leu Ala Lys Ser Lys Ala Glu Val Ala Cys Ile Ala Val Tyr
 50 55 60

Glu Thr Asp Val Phe Val Val Gly Thr Glu Arg Gly Arg Ala Phe Val
 65 70 75 80

Asn Thr Arg Lys Asp Phe Gln Lys Asp Phe Val Lys Tyr Cys Val Glu
 85 90 95

Glu Glu Glu Lys Ala Ala Glu Met His Lys Met Lys Ser Thr Thr Gln
 100 105 110

Ala Asn Arg Met Ser Val Asp Ala Val Glu Ile Glu Thr Leu Arg Lys
 115 120 125

Thr Val Glu Asp Tyr Phe Cys Phe Cys Tyr Gly Lys Ala Leu Gly Lys
 130 135 140

Ser Thr Val Val Pro Val Pro Tyr Glu Lys Met Leu Arg Asp Gln Ser
 145 150 155 160

4550

Ala Val Val Val Gln Gly Leu Pro Glu Gly Val Ala Phe Lys His Pro
 165 170 175

Glu Asn Tyr Asp Leu Ala Thr Leu Lys Trp Ile Leu Glu Asn Lys Ala
 180 185 190

Gly Ile Ser Phe Ile Xaa Lys Xaa
 195 200

<210> 5052

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5052

Arg Glu Ile Glu Arg Lys Arg Gln Arg Glu Glu Arg Arg Lys Trp
 1 5 10 15

Lys Glu Glu Glu Lys Arg Lys Arg Lys Asp Ile Glu Lys Leu Lys Lys
 20 25 30

Ile Asp Arg Ile Pro Glu Arg Asp Lys Leu Lys Asp Glu Pro Lys Ile
 35 40 45

Lys Leu Leu Lys Lys Pro Glu Lys Gly Asp Glu Lys Glu Leu Asp Lys
 50 55 60

Arg Glu Lys Ala Lys Lys Leu Asp Lys Glu Asn Leu Ser Asp Glu Arg

4551

65		70		75		80
Ala Ser Gly Gln Ser Cys Thr Leu Pro Lys Arg Ser Asp Ser Glu Leu						
	85		90		95	
Lys Asp Glu Lys Pro Lys Arg Pro Glu Asp Glu Ser Gly Arg Asp Xaa						
	100		105		110	
Arg Glu Arg Glu Arg Glu Tyr Glu Arg Asp Gln Glu Arg Ile Leu Arg						
	115		120		125	
Glu Arg Glu Arg Leu Lys Arg Gln Glu Glu Glu Arg Arg Arg Xaa Arg						
	130		135		140	
Ser Ala Met Arg Lys Arg Arg Leu Leu Arg Xaa Lys Lys Lys Lys Xaa						
145		150		155		160
Lys Lys Arg Lys Thr His Phe Gly Ile Lys Glu Arg Arg Leu Lys Val						
	165		170		175	
Gln Asn Gln						

<210> 5053

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5053

Gln Asp Gly Leu Asn Ser Leu Val Leu Asp Leu Asp Phe Pro Ala Leu							
1		5		10		15	
Arg Lys Asn Lys Asn Ile Asp Asn Phe Leu Asn Arg Tyr Glu Lys Ile							
	20		25		30		
Val Lys Lys Ile Arg Gly Leu Gln Met Lys Ala Glu Asp Tyr Asp Val							
	35		40		45		
Val Lys Val Ile Gly Arg Gly Xaa Phe Gly Glu Val Gln Leu Val Val							
	50		55		60		
Thr Arg His Arg Arg Arg Phe Met Leu							
	65		70				

4552

<210> 5054

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5054

Pro Cys Ala Ile Ile Phe Phe His His Phe Ser Gly Xaa Leu Glu Gly
1 5 10 15

Gly Gly Asp Pro Gly Asp Leu Ser Thr Leu Phe Ser Gln Lys Ala Gly
20 25 30

Trp Phe Phe Ser Leu Phe Ser Cys Asp Ser Tyr Leu Glu Ser Gly Leu
35 40 45

Asn Val Asn Ile Leu Val Leu Val Val Gln Leu Arg
50 55 60

<210> 5055

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

4553

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5055

Gly	Arg	Val	Glu	Lys	Ser	Leu	Met	Thr	Leu	Lys	Ile	Ser	Ala	Trp	Leu
1				5					10					15	

Leu	Thr	Lys	Ile	Gly	Asn	Xaa	Xaa	Xaa	Gly	Xaa	Arg	Phe	Gly	Lys	Arg
			20					25					30		

Arg	Glu	Arg	Ile	Met	Lys	Phe	Asp	Phe	Tyr	Ile	Glu	Met	Lys	Gly	Pro
		35					40					45			

Phe	Gln	Ile	Trp	Lys	Ser	Phe	Gly	Leu	Asn	Asn	Xaa	Xaa	Ile	Phe	Asp
	50						55				60				

Leu	Glu	Asn	Xaa	Gly	Xaa	Lys	Pro
65						70	

<210> 5056

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5056

Leu	Lys	Cys	Phe	Glu	Thr	Val	Val	Asp	Gly	Tyr	Glu	Glu	Leu	Leu	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4554

1 5 10 15
 Leu Leu Pro Cys Arg Thr Pro Glu Ser Lys Met Ile His Gln Gln Leu
 20 25 30
 Tyr Trp Ser His Pro Arg Lys Val Ser Gln Gly Ser Cys Tyr Xaa Val
 35 40 45
 Cys

<210> 5057

<211> 104

<212> PRT

<213> Homo sapiens

<400> 5057

Arg Ile Gln Glu Tyr Phe Leu Leu Gly Trp Ala Leu Asn Lys Ala Lys
 1 5 10 15
 Asn Cys Arg Asn Gln Ser Arg Lys Ser Pro Ala His Leu Trp Pro Leu
 20 25 30
 Pro Ser Ser Arg Pro Pro Pro Cys Arg Lys Asn Leu Ala Phe Gly Leu
 35 40 45
 Ser Leu Ser His Arg Gly His Leu Leu Phe Pro Ser Asp Ile Gln Pro
 50 55 60
 Tyr Arg Arg Ser Leu Asp Ser Asp Pro Ser Val Gln Ala Gly Trp Lys
 65 70 75 80
 Gly Pro Ser Thr Leu Pro Gly Arg Ser Glu Thr Asn Cys Phe Arg Glu
 85 90 95
 Ser Asp Gly Leu Pro Lys Thr Cys
 100

<210> 5058

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

4555

<400> 5058

Pro Thr Arg Pro Arg Thr Arg Gly Leu Lys Met Pro Leu Thr Phe Ile
 1 5 10 15

Leu Leu Pro Ser Gly Lys Gly Asn Leu Val Phe Ser Ile Thr Ser Thr
 20 25 30

Lys Ile Leu Leu Xaa Ser Thr His Tyr Pro Ile Pro Lys Pro Phe Ser
 35 40 45

His Phe Lys Thr Phe Val Thr Glu Val Pro Asn Pro Ser Gln Phe His
 50 55 60

Asn Leu His
 65

<210> 5059

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5059

Thr Lys Leu His Phe Gln Gly Gln Gly Leu Gly Asn Xaa Leu Ile Val
 1 5 10 15

Lys Ser Cys Asn Thr Ser Val Gln Val Asn Ile Ser Gly Pro Cys Phe
 20 25 30

Pro Ser Gln Cys Met His Glu Leu Phe Phe Met His His Trp Gly Ala
 35 40 45

Gln Ser Trp Xaa Asn Leu Pro Val Gly Ile Leu Gly Xaa Thr Trp Ala
 50 55 60

4557

Glu Pro His Ile Leu Leu Phe Arg Arg Pro Leu Pro Lys Asp Gln Gln
 100 105 110

Lys

<210> 5062

<211> 287

<212> PRT

<213> Homo sapiens

<400> 5062

Ser Gly Ser Ala Phe Leu Arg Cys Pro Pro Pro Pro Val Arg Arg Ser
 1 5 10 15

Glu Lys Pro Asn Trp Asp Tyr His Ala Glu Ile Gln Ala Phe Gly His
 20 25 30

Arg Leu Gln Glu Asn Phe Ser Leu Asp Leu Leu Lys Thr Ala Phe Val
 35 40 45

Asn Ser Cys Tyr Ile Lys Ser Glu Glu Ala Lys Arg Gln Gln Leu Gly
 50 55 60

Ile Glu Lys Glu Ala Val Leu Leu Asn Leu Lys Ser Asn Gln Glu Leu
 65 70 75 80

Ser Glu Gln Gly Thr Ser Phe Ser Gln Thr Cys Leu Thr Gln Phe Leu
 85 90 95

Glu Asp Glu Tyr Pro Asp Met Pro Thr Glu Gly Ile Lys Asn Leu Val
 100 105 110

Asp Phe Leu Thr Gly Glu Glu Val Val Cys His Val Ala Arg Asn Leu
 115 120 125

Ala Val Glu Gln Leu Thr Leu Ser Glu Glu Phe Pro Val Pro Pro Ala
 130 135 140

Val Leu Gln Gln Thr Phe Phe Ala Val Ile Gly Ala Leu Leu Gln Ser
 145 150 155 160

Ser Gly Pro Glu Arg Thr Ala Leu Phe Ile Arg Asp Phe Leu Ile Thr
 165 170 175

Gln Met Thr Gly Lys Glu Leu Phe Glu Met Trp Lys Ile Ile Asn Pro
 180 185 190

4558

Met Gly Leu Leu Val Glu Glu Leu Lys Lys Arg Asn Val Ser Ala Pro
 195 200 205

Glu Ser Arg Leu Thr Arg Gln Ser Gly Gly Thr Thr Ala Leu Pro Leu
 210 215 220

Tyr Phe Val Gly Leu Tyr Cys Asp Lys Lys Leu Ile Ala Glu Gly Pro
 225 230 235 240

Gly Glu Thr Val Leu Val Ala Glu Glu Glu Ala Ala Arg Val Ala Leu
 245 250 255

Arg Lys Leu Tyr Gly Phe Thr Glu Asn Arg Arg Pro Trp Asn Tyr Ser
 260 265 270

Lys Pro Lys Glu Thr Leu Arg Ala Glu Lys Ser Ile Thr Ala Ser
 275 280 285

<210> 5063

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5063

Ile Leu Thr Glu Phe Leu Glu Met Ile Val Asn Cys Leu Gln Ile Ile
 1 5 10 15

Glu Lys Cys Ile Tyr Leu Cys Val Cys Val Cys Gln Lys Cys Asn Cys
 20 25 30

Phe Ile Ile Phe Phe Pro Tyr Leu Tyr Ile Leu Phe Asn Thr Trp Phe
 35 40 45

Ile Ser Thr Val His Cys Phe Leu Cys Pro Lys Leu Thr
 50 55 60

<210> 5064

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4559

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5064

Glu	Asp	Pro	Phe	Thr	Ile	Leu	Thr	Lys	Glu	Ile	Phe	Phe	Phe	Thr	Val
1				5				10						15	

Glu	Leu	Val	Cys	Glu	Asn	Lys	Glu	Leu	Cys	Ser	Ser	Pro	Arg	Trp	Arg
			20					25					30		

Asn	Ala	Ile	Gln	Lys	Ser	Asn	Phe	Ser	Lys	Val	Thr	Ser	Phe	Phe	Met
			35					40					45		

Ser	Cys	His	His	Phe	Lys	Gly	Leu	Ala	Pro	Leu	Pro	His	Val	Tyr	Thr
	50					55					60				

Gln	Gly	Asn	Cys	Arg	Pro	Ile	Ser	Cys	Leu	Gly	Leu	Thr	Leu	Met	Pro
65					70					75					80

Phe	Ala	Ser	Ser	Phe	Pro	Glu	Val	Lys	Val	Pro	Val	Met	Tyr	Ser	His
				85					90					95	

Arg	Asn	Ile	Phe	Gln	Leu	Phe	Met	Ser	Phe	Thr	Thr	Lys	Lys	Lys	Xaa
			100					105					110		

Gln	Ser	Gly	Met	Gly	Val	Gln	Leu	Leu	Xaa	Xaa	Phe	Leu	Val	Arg	Ile
		115					120					125			

Phe	Tyr
	130

<210> 5065

<211> 342

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5065

Ile	Arg	His	Glu	Gly	Leu	Gly	Arg	Met	Lys	Pro	Asn	Thr	Leu	Val	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4560

1	5	10	15
Gly Phe Xaa Lys Asp Trp Leu Gln Ala Asp Met Arg Asp Val Asp Met	20	25	30
Tyr Ile Asn Leu Phe His Asp Ala Phe Asp Ile Gln Tyr Gly Val Val	35	40	45
Val Ile Arg Leu Lys Glu Gly Leu Asp Ile Ser His Leu Gln Gly Gln	50	55	60
Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser Pro Gly Thr Lys Asp Val	65	70	75
Val Val Ser Val Glu Tyr Ser Lys Lys Ser Asp Leu Asp Thr Ser Lys	85	90	95
Pro Leu Ser Glu Lys Pro Ile Thr His Lys Val Glu Glu Glu Asp Gly	100	105	110
Lys Thr Ala Thr Gln Pro Leu Leu Lys Lys Glu Ser Lys Gly Pro Ile	115	120	125
Val Pro Leu Asn Val Ala Asp Gln Lys Leu Leu Glu Ala Ser Thr Gln	130	135	140
Phe Gln Lys Lys Gln Gly Lys Asn Thr Ile Asp Val Trp Trp Leu Phe	145	150	155
Asp Asp Gly Gly Leu Thr Leu Leu Ile Pro Tyr Leu Leu Thr Thr Lys	165	170	175
Lys Lys Trp Lys Asp Cys Lys Ile Arg Val Phe Ile Gly Gly Lys Ile	180	185	190
Asn Arg Ile Asp His Asp Arg Arg Ala Met Ala Thr Leu Leu Ser Lys	195	200	205
Phe Arg Ile Asp Phe Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr	210	215	220
Lys Pro Lys Lys Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro	225	230	235
Tyr Arg Leu His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys Met	245	250	255
Lys Glu Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu Leu Tyr	260	265	270
Lys Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu Leu Lys Glu			

4563

100	105	110
Pro His Ser Lys Val Ile Gln Met Asp Val Ala Leu Phe Glu Met Asn		
115	120	125
Gln Ser Asp Ser Lys Glu Val Asp Ser Ser Glu Glu Ser Ser Gln Asp		
130	135	140
Ser Ser Glu Asn Ser Ser Glu Ser Glu Asp Glu Asp Asp Ser Ile Pro		
145	150	155
Ser Glu Val Thr Ile Asp Asn Ile Lys Leu Pro Asn Ser Glu Gly Gly		
165	170	175
Lys Gly Lys Ile Glu Val Leu Asp Ser Pro Ala Ser Lys Lys Lys Lys		
180	185	190

<210> 5069

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5069

Leu Thr Ser Val Asn Ser Ser Pro Thr Arg Leu Met Thr Thr Phe Ile
1 5 10 15

Leu His Glu Xaa Ile Val Phe Val Ser Thr Val Phe Tyr Tyr Phe Arg
20 25 30

Ala Ser Leu Arg His Thr Ile
35

<210> 5070

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4564

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5070

Gly	Ser	Gly	Ala	Glu	Ala	Xaa	Asp	Lys	Lys	Pro	Arg	Asp	Leu	Phe	Gly
1				5					10					15	

Pro	Pro	Gly	Pro	Pro	Xaa	Ala	Glu	Val	Thr	Ala	Glu	Thr	Leu	Leu	His
			20					25					30		

Glu	Phe	Gln	Glu	Leu	Leu	Lys	Glu	Ala	Thr	Glu	Arg	Arg	Phe	Ser	Gly
		35					40					45			

Leu	Leu	Asp	Pro	Leu	Leu	Pro	Gln	Gly	Ala	Gly	Leu	Arg	Leu	Val	Gly
		50				55						60			

Glu	Ala	Phe	His	Cys	Arg	Leu	Gln	Gly	Pro	Arg	Arg	Val	Asp	Lys	Arg
	65					70				75					80

Thr	Leu	Val	Glu	Leu	His	Gly	Phe	Gln	Ala	Pro	Ala	Ala	Gln	Gly	Ala
				85					90					95	

Phe	Leu	Arg	Gly	Ser	Gly	Leu	Ser	Leu	Ala	Ser	Gly	Arg	Phe	Thr	Ala
			100					105					110		

Pro	Val	Ser	Gly	Ile	Phe	Gln	Phe	Xaa	Ala	Xaa	Leu	Xaa	Val	Gly	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4565

115 120 125
 Gly Trp Gly Ser Ala Val Cys Cys Asp Gly Ala Gly Ala Xaa Leu Ser
 130 135 140
 Gly Gly
 145

 <210> 5071
 <211> 126
 <212> PRT
 <213> Homo sapiens

 <400> 5071
 Glu Arg Ser His Leu Gln Pro Gly Ala Val Gly Ile Thr Glu Ser Pro
 1 5 10 15
 Ile Leu Gly Leu Gly Ser Ala Met Thr Thr Glu Ile Gly Trp Trp Lys
 20 25 30
 Leu Thr Phe Leu Arg Lys Lys Lys Ser Thr Pro Lys Val Leu Tyr Glu
 35 40 45
 Ile Pro Asp Thr Tyr Ala Gln Thr Glu Gly Asp Ala Glu Pro Pro Arg
 50 55 60
 Pro Asp Ala Gly Gly Pro Asn Ser Asp Phe Asn Thr Arg Leu Glu Lys
 65 70 75 80
 Ile Val Asp Lys Ser Thr Lys Gly Lys His Val Lys Val Ser Asn Ser
 85 90 95
 Gly Arg Phe Lys Glu Lys Lys Lys Val Arg Ala Thr Leu Ala Glu Asn
 100 105 110
 Pro Asn Leu Phe Asp Asp His Glu Glu Gly Arg Ser Ser Lys
 115 120 125

<210> 5072

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

4566

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5072

Tyr Cys Ser Leu Lys Thr Pro Leu Ser Glu Asn Asp Met Pro Ser Gln
 1 5 10 15

Cys Asn Ser Glu Leu Val Arg Gly Pro Leu Ala Ala Pro Gly Gly Gly
 20 25 30

Glu Arg Tyr Ser Arg Ser Ala Gly Met Tyr Met Gln Ser Gly Ser Asp
 35 40 45

Phe Asn Cys Gly Val Xaa Arg Gly Cys Gly Leu Ala Pro Ser Leu Ser
 50 55 60

Lys Arg Asp Glu Gly Ser Ser Pro Ser Leu Ala Leu Asn Thr Tyr Pro
 65 70 75 80

Ser Tyr Leu Ser Gln Leu Asp Ser Trp Gly Asp Pro Lys Ala Ala Tyr
 85 90 95

Arg Leu Glu Gln Pro Val Gly Arg Pro Leu Ser Ser Cys Ser Tyr Pro
 100 105 110

Pro Ser Val Lys Glu Glu Asn Val Cys Cys Met Tyr Ser Ala Glu Lys
 115 120 125

Arg Ala Lys Ser Gly Pro Glu Ala Ala Leu Tyr Ser His Pro Leu Pro
 130 135 140

Glu Ser Cys Leu Gly Glu His Glu Val Pro Val Pro Ser Tyr Tyr Arg
 145 150 155 160

Ala Ser Arg Ala Thr Pro Arg Trp Thr Arg Arg Pro Thr Val Leu Gly
 165 170 175

Pro Thr Thr Ser Lys Pro Leu Ser Ser Ser Gly Pro Val Xaa Thr Arg
 180 185 190

Ala Pro Asn Ile Trp Asn Arg Leu Ser Trp Gly Ala Lys
 195 200 205

<210> 5073

<211> 84

<212> PRT

4567

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5073

Val	Ser	Ser	Asn	Pro	Asp	Lys	Ser	Arg	Cys	Leu	Gly	Val	Arg	His	Ile
1				5				10					15		

Gln	Asp	Ile	Gly	Leu	Trp	Leu	Gln	Asn	Arg	Asn	Leu	Gly	Gly	Leu	Gln
			20				25					30			

Leu	Val	Leu	Gly	Arg	Leu	Leu	Leu	Leu	Arg	Leu	Leu	Leu	Ile	Ile	Leu
			35				40					45			

Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Asn	Arg	Gln	Xaa	Asn	Gln	Xaa
			50				55				60				

Val	His	Xaa	Val	His	His	Gln	Ser	Pro	Gly	Pro	Cys	Gly	Xaa	Glu	Val
	65				70					75					80

Leu Xaa Thr Asn

<210> 5074

<211> 61

<212> PRT

4568

<213> Homo sapiens

<400> 5074

Gly Arg Ala Lys Glu Arg Lys Val Asn Lys Lys Lys Gln Gln Gln Gln
1 5 10 15

Gln Pro Pro Gln Pro Pro Met Ala His Asp Ile Thr Ala Thr Pro Ala
20 25 30

Gly Pro Ser Leu Gly Gly Leu Cys Pro Ser Asn Thr Ser Leu Leu Ala
35 40 45

Thr Ser Ser Pro Met Pro Val Lys Glu Glu Phe Leu Pro
50 55 60

<210> 5075

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5075

Phe His His Val Ala Gln Ala Gly Leu Asp Leu Pro Thr Ser Ser Asp
1 5 10 15

Leu Pro Ala Pro Thr Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser His
20 25 30

Arg Ala Arg Pro Val Leu Phe Val Phe Val Glu Arg Trp Gly Phe Ala
35 40 45

Met Leu Pro Arg Leu Ile Ser Asn Ser
50 55

<210> 5076

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

4569

<400> 5076

Glu Val Leu Pro Gly Pro Gly Ser Thr Arg Val Trp Pro Gly Pro Ser
 1 5 10 15
 Val Ser Pro Arg Pro Gln Gly Gly Ala Leu Ser Thr Gln Lys Gly Pro
 20 25 30
 Lys Ala Gly His Gly Gly Ala Glu Glu Phe Gly Arg Cys Lys Gln Pro
 35 40 45
 His Ala Arg Gly Gly Gly Asp Cys Phe Ser Xaa Arg Pro His Ala Ser
 50 55 60
 Thr Phe His Xaa Ala Cys Pro Leu Leu Met Cys Ser Ser Gln Cys Leu
 65 70 75 80
 Cys Glu Pro Thr Ser Ala Gln Ser Tyr Pro Ser Ser Ala Cys Gly Asp
 85 90 95
 Pro Ala Pro Ala Ala Leu Leu Leu Pro Arg Pro Gln Thr Ala Trp Trp
 100 105 110
 Arg Val Leu His Leu Gly Gln Ala Gly Val His Pro Ala Lys Asp Lys
 115 120 125
 Ala Ala Ser Thr Cys Pro Arg Ile Gln Met Val His Trp Pro Arg Glu
 130 135 140
 Glu Ser Asp Gln Lys Trp Ser Pro Leu Cys Gly Glu Ala Pro Thr Pro
 145 150 155 160
 Pro Arg Glu Thr Val Pro Arg Cys Gly Ser Pro Pro Ser Leu Val Gly
 165 170 175
 His Ser Trp Pro Gly Pro Pro Ile Leu Arg Ser Phe Pro Gly Cys Gly
 180 185 190
 Phe Asp Leu Arg Ser Gly Ser Gly Leu Ala Ser Gly Val Trp Pro Gly
 195 200 205
 Pro Ala Cys Cys Ser Leu Leu Gly Gly Pro
 210 215

<210> 5077

<211> 59

<212> PRT

<213> Homo sapiens

4570

<400> 5077

Gly Ser Ser Thr Ile Lys Ala Tyr Leu Ile Asn Asn Tyr Phe Cys Lys
1 5 10 15

Gln Val Gly Leu Thr Tyr Ser Ser Ser Phe Cys Leu Asp Met Asn Leu
20 25 30

Arg Ser Ser Cys Leu Lys Thr Phe Thr Leu Leu Phe Ser Asp Thr Phe
35 40 45

Pro Ser Tyr Phe Phe Phe Phe Phe Gly Cys Cys
50 55

<210> 5078

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4571

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5078

Phe	Ile	Leu	Glu	Leu	Gln	Met	Gln	Ser	Ile	Xaa	Glu	Lys	Lys	Met	Lys
1				5					10					15	

Xaa	Xaa	Arg	Asn	Ile	Ala	Xaa	His	Xaa	Xaa	Asn	Xaa	Pro	Ser	Leu	Ile
			20					25					30		

Thr	Phe	Leu	Cys	Lys	Asn	Cys	Ser	Val	Leu	Ala	Cys	Ser	Gly	Glu	Asp
		35					40					45			

Ile	His	Val	Ile	Glu	Lys	Met	His	His	Val	Asn	Met	Thr	Pro	Glu	Phe
	50					55					60				

Lys	Glu	Leu	Tyr	Ile	Val	Arg	Glu	Asn	Lys	Xaa	Leu	Gln	Lys	Lys	Cys
65					70					75					80

Ala	Asp	Tyr	Gln	Ile	Asn	Gly	Glu	Ile	Ile	Cys	Lys	Cys	Gly	Gln	Ala
				85					90					95	

Trp	Gly	Thr	Met	Met	Val	His	Lys	Gly	Leu	Asp	Leu	Pro	Cys	Leu	Lys
			100					105					110		

Ile	Arg	Asn	Phe	Val	Val	Val	Phe	Lys	Asn	Asn	Ser	Thr	Lys	Lys	Gln
		115						120				125			

Tyr	Lys	Lys	Trp	Val	Glu	Leu	Pro	Ile	Thr	Phe	Pro	Asn	Leu	Asp	Tyr
	130					135					140				

Ser	Glu	Cys	Cys	Leu	Phe	Ser	Asp	Glu	Asp
145					150				

<210> 5079

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

4572

<400> 5079

Xaa	Ile	Glu	Ile	Asn	Pro	His	Val	Lys	Gly	Thr	Lys	Ala	Gly	Ala	Pro	1	5	10	15
Pro	Arg	Cys	Gly	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	20	25	30	
Phe	Gly	Thr	Ser	Ser	Ser	Thr	Pro	Ala	Arg	Pro	Ser	Ser	His	His	Ser	35	40	45	
Ala	Cys	Phe	Leu	Gly	Pro	Glu	Ile	Met	Pro	Leu	Gly	Leu	Leu	Trp	Leu	50	55	60	
Gly	Leu	Ala	Leu	Leu	Gly	Ala	Leu	His	Ala	Gln	Ala	Gln	Asp	Ser	Thr	65	70	75	80
Ser	Asp	Leu	Ile	Pro	Ala	Pro	Pro	Leu	Ser	Lys	Val	Pro	Leu	Gln	Gln	85	90	95	
Asn	Phe	Gln	Asp	Asn	Gln	Phe	Gln	Gly	Lys	Trp	Tyr	Val	Val	Gly	Leu	100	105	110	
Ala	Gly	Asn	Ala	Ile	Leu	Arg	Glu	Asp	Lys	Asp	Pro	Gln	Lys	Met	Tyr	115	120	125	
Ala	Thr	Ile	Tyr	Glu	Leu	Lys	Glu	Asp	Lys	Ser	Tyr	Asn	Val	Thr	Ser	130	135	140	
Val	Leu	Phe	Arg	Lys	Lys	Lys	Cys	Asp	Tyr	Trp	Ile	Arg	Thr	Phe	Val	145	150	155	160
Pro	Gly	Cys	Gln	Pro	Gly	Glu	Phe	Thr	Leu	Gly	Asn	Ile	Lys	Ser	Tyr	165	170	175	
Pro	Gly	Leu	Thr	Ser	Tyr	Leu	Val	Arg	Val	Val	Ser	Thr	Asn	Tyr	Asn	180	185	190	
Gln	His	Ala	Met	Val	Phe	Phe	Lys	Lys	Val	Ser	Gln	Asn	Arg	Glu	Tyr	195	200	205	
Phe	Lys	Ile	Thr	Leu	Tyr	Gly	Arg	Thr	Lys	Glu	Leu	Thr	Ser	Glu	Leu	210	215	220	
Lys	Glu	Asn	Phe	Ile	Arg	Phe	Ser	Lys	Ser	Leu	Gly	Leu	Pro	Glu	Asn	225	230	235	240
His	Ile	Val	Phe	Pro	Val	Pro	Ile	Asp	Gln	Cys	Ile	Asp	Gly	245	250				

4573

<210> 5080

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5080

Gln Ala Ala Asp Lys Tyr Val Asp Asp Met Gly Gln Leu Arg Ala Pro
1 5 10 15

Phe Ala Cys His Leu Pro Pro Leu Leu Trp Met Val Ser Pro Leu Ala
20 25 30

Arg Leu Pro Gly Thr Asp His Val Ala Ile Lys Ala Asn Val Asn Lys
35 40 45

Tyr His Glu Thr Val Val Cys Ile Val Phe
50 55

<210> 5081

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5081

Ser Leu Ala Phe Gln Gly Ala Ser Ile Ala Leu His His Asp Leu Ala
1 5 10 15

Leu Val Leu Leu Arg Asp Leu Pro Thr Ala Gly Ser Val Pro Ser Ser
20 25 30

Val Ile Val Leu His Ser Asp Thr Ile Ile Ala Gly Leu Asn Ile Ala
35 40 45

Ile Asn Met Ser Val Pro Gln Ala Glu Arg Gly Phe Leu Ile Leu Arg
50 55 60

Glu Gln Lys Val Phe Trp Leu Lys Arg Leu Lys Thr
65 70 75

<210> 5082

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5082

Lys Tyr Leu Arg Ala Ile Ile Val Gly His Leu Arg Ser Ser Val Asn

4574

1 5 10 15
Ser Glu Leu Ala Asn Leu Ser Leu Cys Val Ser Thr Leu Ile Phe Phe
20 25 30
Phe Ser Trp Val Ser Glu Ala Ser Lys Phe Phe Gln Lys Trp Ser Ile
35 40 45
Thr Lys Leu Ser Glu Thr Gln Tyr Leu Met Tyr Cys Thr Arg Leu Pro
50 55 60
Asn Ser
65

<210> 5083

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (344)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (350)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (359)

<223> Xaa equals any of the naturally occurring L-amino acids

4575

<400> 5083

Xaa	Leu	His	Arg	Gly	Asp	Asp	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly
1				5					10					15	
Leu	Gln	Glu	Phe	Gly	Arg	Gly	Xaa	Ala	Gly	Val	Gly	Gly	Arg	Pro	Arg
			20					25					30		
Arg	Arg	Arg	Arg	Lys	Gly	Ala	Ala	Ser	Arg	Ala	Arg	Leu	Pro	Phe	Ser
			35					40				45			
Leu	Ser	Ile	Met	Asp	Pro	Ser	Leu	Leu	Arg	Glu	Arg	Glu	Leu	Phe	Lys
	50					55				60					
Lys	Arg	Ala	Leu	Ser	Thr	Pro	Val	Val	Glu	Lys	Arg	Ser	Ala	Ser	Ser
65					70					75					80
Glu	Ser	Ser	Ser	Ser	Ser	Ser	Lys	Lys	Lys	Lys	Thr	Lys	Val	Glu	His
				85					90					95	
Gly	Gly	Ser	Ser	Gly	Ser	Lys	Gln	Asn	Ser	Asp	His	Ser	Asn	Gly	Ser
			100					105					110		
Phe	Asn	Leu	Lys	Ala	Leu	Ser	Gly	Ser	Ser	Gly	Tyr	Lys	Phe	Gly	Val
	115						120					125			
Leu	Ala	Lys	Ile	Val	Asn	Tyr	Met	Lys	Thr	Arg	His	Gln	Arg	Gly	Asp
	130						135				140				
Thr	His	Pro	Leu	Thr	Leu	Asp	Glu	Ile	Leu	Asp	Glu	Thr	Gln	His	Leu
145					150					155					160
Asp	Ile	Gly	Leu	Lys	Gln	Lys	Gln	Trp	Leu	Met	Thr	Glu	Ala	Leu	Val
			165					170						175	
Asn	Asn	Pro	Lys	Ile	Glu	Val	Ile	Asp	Gly	Lys	Tyr	Ala	Phe	Lys	Pro
		180						185					190		
Lys	Tyr	Asn	Val	Arg	Asp	Lys	Lys	Ala	Leu	Leu	Arg	Leu	Leu	Asp	Gln
	195						200					205			
His	Asp	Gln	Arg	Gly	Leu	Gly	Gly	Ile	Leu	Leu	Glu	Asp	Ile	Glu	Glu
	210					215					220				
Ala	Leu	Pro	Asn	Ser	Gln	Lys	Ala	Val	Lys	Ala	Leu	Gly	Asp	Gln	Ile
225					230					235					240
Leu	Phe	Val	Asn	Arg	Pro	Asp	Lys	Lys	Lys	Ile	Leu	Phe	Phe	Asn	Asp
			245					250						255	
Lys	Ser	Cys	Gln	Phe	Ser	Val	Asp	Glu	Glu	Phe	Gln	Lys	Leu	Trp	Arg
		260						265					270		

4576

Ser Val Thr Val Asp Ser Met Asp Glu Glu Lys Ile Glu Glu Tyr Leu
 275 280 285

 Lys Arg Gln Gly Ile Ser Ser Met Gln Glu Ser Gly Pro Lys Lys Val
 290 295 300

 Ala Pro Ile Gln Arg Arg Lys Lys Pro Ala Ser Gln Lys Lys Arg Arg
 305 310 315 320

 Phe Lys Thr His Asn Glu His Leu Ala Gly Val Leu Lys Asp Tyr Ser
 325 330 335

 Asp Ile Thr Ser Ser Asn Arg Xaa Gln Phe Cys Leu Gly Xaa Glu Leu
 340 345 350

 Gln Ile His Xaa Gln Glu Xaa Ser Cys
 355 360

<210> 5084

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5084

Ile Arg Asn Thr Cys Ile Trp Trp Lys Pro Trp Ile Ser Thr Ser Ser
 1 5 10 15

 Asn Tyr Ser Ser Leu Tyr Ser Leu Leu Cys Lys Leu Val Tyr Asn Leu
 20 25 30

 Gln Ala Asp Leu Lys Ile Phe Leu Tyr Leu Ile Ala Ala Ala Phe Ile
 35 40 45

 Leu Gly Ser Ala Val Thr Phe Asn Tyr Leu Asn Leu Leu Pro Glu Gly
 50 55 60

 Met Ser Leu Thr Phe
 65

<210> 5085

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4577

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5085

Leu	Trp	Phe	Arg	Trp	Phe	Gln	Phe	Ser	Asp	Ile	Ser	Ser	Ser	Arg	Lys
1				5					10					15	

Ala	Asp	Ser	Leu	Cys	His	Ser	His	Leu	Ala	Thr	Ala	Ala	Gly	Gly	Ser
			20					25					30		

Gly	Asp	Lys	Asp	Leu	Ser	Ile	Gly	Pro	Ala	His	Gly	Gly	Asn	Thr	Lys
		35					40					45			

Glu	Pro	Gly	Ala	Asp	Ala	Phe	Phe	Arg	Ala	Val	Thr	Thr	Pro	Glu	His
	50					55					60				

Ala	Thr	Leu	Glu	Thr	Ile	Leu	Arg	His	Asn	Gln	Leu	Ile	Leu	Glu	Ala
65					70					75				80	

Ile	Gln	Gln	Lys	Ile	Glu	Cys	Lys	Leu	Phe	Thr	Ser	Xaa	Xaa	Glu	His
			85						90					95	

Leu	Xaa	Lys	Leu
			100

<210> 5086

<211> 21

<212> PRT

<213> Homo sapiens

<400> 5086

Ile	Pro	Ala	Thr	Arg	Glu	Ala	Glu	Ala	Gly	Glu	Ser	Leu	Glu	Pro	Gly
1				5					10				15		

Arg	Trp	Arg	Leu	Gln
			20	

4578

<210> 5087

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5087

Asp Leu Glu Glu Ile Ile Leu Tyr Tyr Phe Leu Ser Val Phe Phe Asn
 1 5 10 15

Ala Phe Thr Ser Gly Val Gly Met Leu Asp Phe Ile Phe Leu Lys Thr
 20 25 30

Asn Lys Ile Trp Lys Ala Leu Pro Leu Asn Val Thr
 35 40

<210> 5088

<211> 239

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5088

Ser Leu Glu Asn Asp Lys Met Arg Leu Glu Lys Asp Leu Ser Phe Lys
 1 5 10 15

Asp Thr Gln Leu Lys Glu Tyr Glu Glu Leu Leu Ala Ser Val Arg Ala
 20 25 30

Asn Asn His Gln Gln Gln Gln Gly Leu Gln Asp Ser Ser Ser Lys Cys
 35 40 45

Gln Ala Leu Glu Glu Asn Asn Leu Ser Leu Arg His Thr Leu Ser Asp
 50 55 60

Met Glu Tyr Arg Leu Lys Glu Leu Glu Tyr Xaa Lys Arg Asn Leu Glu
 65 70 75 80

Gln Glu Asn Gln Asn Leu Arg Met Gln Val Ser Glu Thr Cys Thr Gly
 85 90 95

Pro Met Leu Gln Ala Lys Met Asp Glu Ile Gly Asn His Tyr Thr Glu
 100 105 110

Met Val Lys Asn Leu Arg Met Glu Lys Asp Arg Glu Ile Cys Arg Leu
 115 120 125

4580

	85		90		95										
Arg	Ala	Leu	Met	Ala	Leu	Lys	Lys	Arg	Thr	Lys	Asp	Lys	Leu	Phe	Gln
	100							105					110		
Phe	Leu	Lys	Leu	Arg	Lys	Tyr	Ser	Ile	Lys	Val	His				
	115							120							

<210> 5090
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 5090															
Gly	His	Met	Glu	Leu	Ala	Met	Asp	Asn	Ser	Tyr	Ala	Phe	Asn	Gln	Arg
1				5					10					15	
Ser	Thr	Cys	Asn	Gly	Ile	Pro	Ser	Glu	Lys	Lys	Asn	Asn	Phe	Leu	Val
			20					25					30		
Ser	Glu	Asp	His	Gly	Gln	Lys	Ile	Leu	Ser	Val	Leu	Gln	Asn	Phe	Arg
	35						40					45			
Glu	Gln	Asn	Val	Phe	Tyr	Asp	Phe	Lys	Ile	Ile	Met	Lys	Asp	Glu	Ile
	50					55					60				
Ile	Pro	Cys	His	Arg	Cys	Val	Leu	Ala	Ala	Cys	Ser	Asp	Phe	Phe	Arg
65					70					75					80
Ala	Met	Phe	Glu	Val	Asn	Met	Lys	Glu	Arg	Asp	Asp	Gly	Ser	Val	Thr
				85					90					95	
Ile	Thr	Asn	Leu	Ser	Ser	Lys	Ala	Val	Lys	Ala	Phe	Leu	Asp	Tyr	Ala
		100						105					110		
Tyr	Thr	Gly	Lys	Thr	Lys	Ile	Thr	Asp	Asp	Asn	Val	Glu	Met	Phe	Phe
	115						120					125			
Gln	Leu	Ser	Ser	Phe	Leu	Gln	Val	Ser	Phe	Leu	Ser	Lys	Ala	Cys	Ser
	130					135					140				
Asp	Phe	Leu	Ile	Lys	Ser	Ile	Asn	Leu	Val	Asn	Cys	Leu	Gln	Leu	Leu
145					150					155				160	
Ser	Ile	Ser	Asp	Ser	Tyr	Gly	Ser	Thr	Ser	Leu	Phe	Asp	His	Ala	Leu
			165					170					175		
His	Phe	Val	Gln	His	His	Phe	Ser	Leu	Leu	Phe	Lys	Ser	Ser	Asp	Phe
		180						185					190		

4581

Leu Glu Met Asn Phe Gly Val Leu Gln Lys Cys Leu Glu Ser Asp Glu
 195 200 205

Leu Asn Val Pro Glu Glu Glu Lys
 210 215

<210> 5091

<211> 535

<212> PRT

<213> Homo sapiens

<400> 5091

Ser Cys Arg Ile Arg His Glu Arg Leu Thr Ser Ala Val Ser Leu Gln
 1 5 10 15

Leu Arg Ala Pro Gly Ala Ala Arg Pro Ala Ser Gly Leu Pro Asp Arg
 20 25 30

Leu Trp Pro Ala Pro Ser Pro Ser Pro Gly Ala His Arg Ala Ala Ala
 35 40 45

Gly Ala Glu Gln Pro Pro Ser Arg Pro Ser Ala Gly Pro Ala Arg Ser
 50 55 60

Gly Arg Met Asn Asp Phe Gly Ile Lys Asn Met Asp Gln Val Ala Pro
 65 70 75 80

Val Ala Asn Ser Tyr Arg Gly Thr Leu Lys Arg Gln Pro Ala Phe Asp
 85 90 95

Thr Phe Asp Gly Ser Leu Phe Ala Val Phe Pro Ser Leu Asn Glu Glu
 100 105 110

Gln Thr Leu Gln Glu Val Pro Thr Gly Leu Asp Ser Ile Ser His Asp
 115 120 125

Ser Ala Asn Cys Glu Leu Pro Leu Leu Thr Pro Cys Ser Lys Ala Val
 130 135 140

Met Ser Gln Ala Leu Lys Ala Thr Phe Ser Gly Phe Lys Lys Glu Gln
 145 150 155 160

Arg Arg Leu Gly Ile Pro Lys Asn Pro Trp Leu Trp Ser Glu Gln Gln
 165 170 175

Val Cys Gln Trp Leu Leu Trp Ala Thr Asn Glu Phe Ser Leu Val Asn
 180 185 190

4582

Val Asn Leu Gln Arg Phe Gly Met Asn Gly Gln Met Leu Cys Asn Leu
 195 200 205
 Gly Lys Glu Arg Phe Leu Glu Leu Ala Pro Asp Phe Val Gly Asp Ile
 210 215 220
 Leu Trp Glu His Leu Glu Gln Met Ile Lys Glu Asn Gln Glu Lys Thr
 225 230 235 240
 Glu Asp Gln Tyr Glu Glu Asn Ser His Leu Thr Ser Val Pro His Trp
 245 250 255
 Ile Asn Ser Asn Thr Leu Gly Phe Gly Thr Glu Gln Ala Pro Tyr Gly
 260 265 270
 Met Gln Thr Gln Asn Tyr Pro Lys Gly Gly Leu Leu Asp Ser Met Cys
 275 280 285
 Pro Ala Ser Thr Pro Ser Val Leu Ser Ser Glu Gln Glu Phe Gln Met
 290 295 300
 Phe Pro Lys Ser Arg Leu Ser Ser Val Ser Val Thr Tyr Cys Ser Val
 305 310 315 320
 Ser Gln Asp Phe Pro Gly Ser Asn Leu Asn Leu Leu Thr Asn Asn Ser
 325 330 335
 Gly Thr Pro Lys Asp His Asp Ser Pro Glu Asn Gly Ala Asp Ser Phe
 340 345 350
 Glu Ser Ser Asp Ser Leu Leu Gln Ser Trp Asn Ser Gln Ser Ser Leu
 355 360 365
 Leu Asp Val Gln Arg Val Pro Ser Phe Glu Ser Phe Glu Asp Asp Cys
 370 375 380
 Ser Gln Ser Leu Cys Leu Asn Lys Pro Thr Met Ser Phe Lys Asp Tyr
 385 390 395 400
 Ile Gln Glu Arg Ser Asp Pro Val Glu Gln Gly Lys Pro Val Ile Pro
 405 410 415
 Ala Ala Val Leu Ala Gly Phe Thr Gly Ser Gly Pro Ile Gln Leu Trp
 420 425 430
 Gln Phe Leu Leu Glu Leu Leu Ser Asp Lys Ser Cys Gln Ser Phe Ile
 435 440 445
 Ser Trp Thr Gly Asp Gly Trp Glu Phe Lys Leu Ala Asp Pro Asp Glu
 450 455 460

4583

Val Ala Arg Arg Trp Gly Lys Arg Lys Asn Lys Pro Lys Met Asn Tyr
 465 470 475 480

Glu Lys Leu Ser Arg Gly Leu Arg Tyr Tyr Tyr Asp Lys Asn Ile Ile
 485 490 495

His Lys Thr Ser Gly Lys Arg Tyr Val Tyr Arg Phe Val Cys Asp Leu
 500 505 510

Gln Asn Leu Leu Gly Phe Thr Pro Glu Glu Leu His Ala Ile Leu Gly
 515 520 525

Val Gln Pro Asp Thr Glu Asp
 530 535

<210> 5092

<211> 452

<212> PRT

<213> Homo sapiens

<400> 5092

Asp Pro Arg Val Arg Pro Arg Arg Pro Gln Ser Leu Ser Pro Val Leu
 1 5 10 15

Ser Leu Ser Pro Asp Ser Met Ser Phe Thr Thr Arg Ser Thr Phe Ser
 20 25 30

Thr Asn Tyr Arg Ser Leu Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala
 35 40 45

Arg Pro Val Ser Ser Ala Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser
 50 55 60

Gly Ser Arg Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met
 65 70 75 80

Gly Ser Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met
 85 90 95

Gly Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
 100 105 110

Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu Asn Arg
 115 120 125

Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly Pro Gln
 130 135 140

Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala

4584

145		150		155		160
Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile Val Leu Gln Ile						
	165		170		175	
Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr						
	180		185		190	
Glu Leu Ala Met Arg Gln Ser Val Glu Asn Asp Ile His Gly Leu Arg						
	195		200		205	
Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu						
	210		215		220	
Ile Glu Ala Leu Lys Glu Glu Leu Leu Phe Met Lys Lys Asn His Glu						
225		230		235		240
Glu Glu Val Lys Gly Leu Gln Ala Gln Ile Ala Ser Ser Gly Leu Thr						
	245		250		255	
Val Glu Val Asp Ala Pro Lys Ser Gln Asp Leu Ala Lys Ile Met Ala						
	260		265		270	
Asp Ile Arg Ala Gln Tyr Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu						
	275		280		285	
Leu Asp Lys Tyr Trp Ser Gln Gln Ile Glu Glu Ser Thr Thr Val Val						
	290		295		300	
Thr Thr Gln Ser Ala Glu Val Gly Ala Ala Glu Thr Thr Leu Thr Glu						
305		310		315		320
Leu Arg Arg Thr Val Gln Ser Leu Glu Ile Asp Leu Asp Ser Met Arg						
	325		330		335	
Asn Leu Lys Ala Ser Leu Glu Asn Ser Leu Arg Glu Val Glu Ala Arg						
	340		345		350	
Tyr Ala Leu Gln Met Glu Gln Leu Asn Gly Ile Leu Leu His Leu Glu						
	355		360		365	
Ser Glu Leu Ala Gln Thr Arg Ala Glu Gly Gln Arg Gln Ala Gln Glu						
	370		375		380	
Tyr Glu Ala Leu Leu Asn Ile Lys Val Lys Leu Glu Ala Glu Ile Ala						
385		390		395		400
Thr Tyr Arg Arg Leu Leu Glu Asp Gly Glu Asp Phe Asn Leu Gly Asp						
	405		410		415	
Ala Leu Asp Ser Ser Asn Ser Met Gln Thr Ile Gln Lys Thr Thr Thr						

4585

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          420                      425                      430
Arg Arg Ile Val Asp Gly Lys Val Val Ser Glu Thr Asn Asp Thr Lys
          435                      440                      445

Val Leu Arg His
          450

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<210> 5093
<211> 110
<212> PRT
<213> Homo sapiens
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```

<400> 5093
Leu Ser Ile Phe Ser Ser Ser Pro Ile Met Val Asp Asn Asp Ser Ser
  1             5             10             15
Gly Thr Ser Asp Lys Asp His Ser Glu Ile Leu Asp Gly Ile Ser Asn
  20             25             30
Ile Lys Leu Asn Ser Glu Glu Val Thr Gln Ser Gln Leu Asp Ser Cys
  35             40             45
Thr Ser His Asp Gly His Gln Gln Leu Ser Glu Val Ser Ser Lys Arg
  50             55             60
Glu Cys Pro Ala Ser Gly Gln Ser Glu Pro Arg Asn Gly Gly Thr Asn
  65             70             75             80
Glu Glu Ser Asn Ser Ser Gly Asn Thr Asn Thr Asp Pro Pro Ala Glu
  85             90             95
Asp Ser Gln Lys Ser Ser Gly Ala Asn Gln Ala Lys Thr Asp
  100             105             110

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<210> 5094
<211> 66
<212> PRT
<213> Homo sapiens
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<400> 5094
Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Arg Ser Arg
  1                   5                   10                   15
Lys Ile Leu Thr His Lys Asn Phe Gly Leu Glu Ser Phe Pro Gly Val
          20                   25                   30
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4586

Val Pro Ile Lys Thr Asp Leu Glu Arg Lys Pro Ala Gln His Gly Thr
 35 40 45

Cys Phe Leu Asn Ser Leu Glu Ser Val Trp Cys Met Ser Leu Leu Ile
 50 55 60

Tyr Ser
 65

<210> 5095

<211> 241

<212> PRT

<213> Homo sapiens

<400> 5095

Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met
 1 5 10 15

Phe Thr Phe Asn Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala
 20 25 30

Leu Ala Ile Trp Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly
 35 40 45

Ser Glu Asp Val Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile
 50 55 60

Ala Val Gly Ala Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly
 65 70 75 80

Ala Ile Lys Glu Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu
 85 90 95

Leu Leu Ile Leu Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val
 100 105 110

Phe Lys Ser Lys Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn
 115 120 125

Thr Lys Leu Leu Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu
 130 135 140

Ala Ile Ile Val Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn
 145 150 155 160

Gly Ala Ala Asp Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys
 165 170 175

Ala Cys Leu Asp Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln

4587

180 185 190
 Val Tyr Lys Glu Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys
 195 200 205
 Asn Leu Ile Ile Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu
 210 215 220
 Ile Leu Gly Leu Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn
 225 230 235 240

Lys

<210> 5096

<211> 81

<212> PRT

<213> Homo sapiens

<400> 5096

Gly Gly Phe Phe Ser Ile Ser Phe Lys Arg Cys Met Ser Glu Phe Pro
 1 5 10 15
 Leu His Thr Lys Asn Trp Ser Leu Glu Pro His Tyr Ser Leu Ser Gln
 20 25 30
 Val Leu Val Pro Tyr Thr Pro Glu Cys Gln Met Val Gly Ala Asp Trp
 35 40 45
 Lys Lys Glu Lys Ser Ser Ser Arg Cys Val Gly Ser His Pro Pro His
 50 55 60
 Ile Ala Ser Pro Ser Ser Glu Gln Trp Ala Trp Gly Arg Lys Leu Phe
 65 70 75 80

Gln

<210> 5097

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5097

Arg Pro Gln Arg Leu Gly Arg Leu Gly Phe Pro Leu Pro Pro Arg Thr
 1 5 10 15

4588

Pro Lys Asp Thr Pro Asn Pro Arg Pro Ala Gly Pro Ala Leu Ala Arg
 20 25 30
 Pro Lys Tyr Tyr Leu Ala Gln Ala Ser Ala Arg Gly Thr Pro Lys Leu
 35 40 45
 Pro Met Tyr Pro Ala Pro Glu Gly Leu His Ser Gln Glu Val Pro Met
 50 55 60
 Tyr Pro Asn Thr Gly Arg His Pro Ala Pro Pro Ser Gln Thr Arg Lys
 65 70 75 80
 Lys Val Asn Leu Thr Thr Thr Tyr Ser Pro Lys Thr Thr Tyr Phe Val
 85 90 95
 Leu Ala Gly Leu Pro Ala Thr
 100

<210> 5098

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4589

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5098

Ile	Gly	Thr	Ser	Ser	Phe	Ala	Asn	His	Pro	Pro	Ala	Ala	Arg	Leu	Phe
1				5					10					15	

Pro	Ala	Asn	Lys	Glu	Arg	Glu	Glu	Ile	Gln	Thr	Leu	Lys	Gln	Gln	Xaa
		20						25					30		

Ala	Xaa	Leu	Arg	Glu	Asp	Leu	Lys	Xaa	Xaa	Glu	Xaa	Lys	Trp	Ser	Ser
		35					40					45			

Thr	His	Ser	Arg	Leu	Arg	Ser	Gln	Ile	Gln	Met	Leu	Val	Arg	Glu	Asn
	50					55					60				

Thr	Asp	Xaa	Arg	Glu	Glu	Ile	Lys	Val	Met	Glu	Arg	Phe	Arg	Leu	Asp
65					70					75					80

Ala	Trp	Lys	Arg	Ala	Glu	Ala	Ile	Glu	Ser	Ser	Leu	Glu	Val	Glu	Lys
				85					90					95	

Lys	Asp	Lys	Leu	Ala	Asn	Thr	Ser	Val	Arg	Phe	Gln	Asn	Ser	Gln	Ile
			100						105				110		

Ser	Ser	Gly	Thr	Gln	Val	Glu	Lys	Tyr	Lys	Lys	Asn	Tyr	Leu	Pro	Met
		115					120					125			

Gln	Gly	Lys	Arg	Leu	His	Asp	Leu	Phe	Ile	Lys	His	Phe	Arg	Met	
	130					135					140				

<210> 5099

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5099

Thr	Met	Ile	Thr	Pro	Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys
1				5					10					15	

Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro
			20					25					30		

4590

Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Gly Asn Glu Tyr Ile His
 35 40 45

Phe Ser Val Ile Lys Leu Leu Lys Val Asn Phe Asn Val Leu Ile Val
 50 55 60

Phe Leu Met Cys Ala Ala Glu Met Ala Met Ser Leu Leu Asn Leu His
 65 70 75 80

Leu Gln Leu Lys Gly Ser Phe Arg Arg Lys Tyr Lys Leu Ala Phe Ile
 85 90 95

Leu Gln Thr Ile Val Phe Tyr Phe Ile Ile Leu Ile Cys Phe Val Thr
 100 105 110

His Lys Lys Glu Thr Ile Pro Glu Leu
 115 120

<210> 5100

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5100

Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Ile Ile Cys Lys Ile
 1 5 10 15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser
 20 25 30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser
 35 40

<210> 5101

<211> 48

<212> PRT

<213> Homo sapiens

4591

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5101

Lys Tyr His Ser Ser His Xaa Asn Ile Pro Phe Asn Leu Leu Phe Leu
 1 5 10 15

Lys Gly Tyr Cys Lys Tyr Glu Ser Ile Tyr Lys Val Asn Cys Tyr Phe
 20 25 30

Phe Cys Ser Glu Lys Tyr Thr Leu Lys Ile Val Ile Val Asn Asn Val
 35 40 45

<210> 5102

<211> 45

<212> PRT

<213> Homo sapiens

<400> 5102

Glu Arg Asn Trp Met Phe Gln Lys Leu Leu His Leu Leu Gln Met Ser
 1 5 10 15

Gln Ile Gln Leu Leu Pro Phe Glu Asn Val Gly Glu Met Ser Leu Lys
 20 25 30

Asn Met Phe Val Cys Lys Asn Val Ser Val Cys Asn Ser
 35 40 45

<210> 5103

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5103

Val Trp Gly Pro Pro Val Pro Ser Trp Ala Ala Glu Gly Gly Ala Phe
 1 5 10 15

Tyr Pro Arg Phe Leu Ser Leu Leu Lys Ser Leu Glu Gln Thr Val Ala
 20 25 30

Ala Leu His Pro Leu Leu Phe Lys Lys Asn Phe Phe Ser Arg Lys Lys

4592

35 40 45
 Met Leu Ser Val Cys Trp Gly Lys Phe
 50 55

<210> 5104
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5104
 Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15
 Pro Arg Val Arg Ser Leu Asp Ser Asn Xaa Leu Ser Ile Asn Phe Ser
 20 25 30
 Pro Gln Thr Thr Val Asn Phe Tyr Phe Leu Ser Ala Glu Ile Phe His
 35 40 45
 Arg Trp Lys Leu Met Phe Gln Phe
 50 55

<210> 5105
 <211> 370
 <212> PRT
 <213> Homo sapiens

<400> 5105
 Lys Gly Arg Ser Ser Glu Ser Thr Thr Pro Leu Asn Val Ser Arg Glu
 1 5 10 15
 Thr Leu Gln Gln His Lys Leu Leu Lys Val Ile Arg Lys Lys Leu Val
 20 25 30
 Arg Lys Thr Leu Asp Met Ile Lys Lys Ile Ala Asp Asp Lys Tyr Asn
 35 40 45
 Asp Thr Phe Trp Lys Glu Phe Gly Thr Asn Ile Lys Leu Gly Val Ile
 50 55 60
 Glu Asp His Ser Asn Arg Thr Arg Leu Ala Lys Leu Leu Arg Phe Gln

4593

65					70						75					80
Ser	Ser	His	His	Pro	Thr	Asp	Ile	Thr	Ser	Leu	Asp	Gln	Tyr	Val	Glu	
				85					90					95		
Arg	Met	Lys	Glu	Lys	Gln	Asp	Lys	Ile	Tyr	Phe	Met	Ala	Gly	Ser	Ser	
			100					105					110			
Arg	Lys	Glu	Ala	Glu	Ser	Ser	Pro	Phe	Val	Glu	Arg	Leu	Leu	Lys	Lys	
		115					120					125				
Gly	Tyr	Glu	Val	Ile	Tyr	Leu	Thr	Glu	Pro	Val	Asp	Glu	Tyr	Cys	Ile	
	130					135					140					
Gln	Ala	Leu	Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	
145					150					155					160	
Glu	Gly	Val	Lys	Phe	Asp	Glu	Ser	Glu	Lys	Thr	Lys	Glu	Ser	Arg	Glu	
			165					170						175		
Ala	Val	Glu	Lys	Glu	Phe	Glu	Pro	Leu	Leu	Asn	Trp	Met	Lys	Asp	Lys	
			180					185					190			
Ala	Leu	Lys	Asp	Lys	Ile	Glu	Lys	Ala	Val	Val	Ser	Gln	Arg	Leu	Thr	
		195					200					205				
Glu	Ser	Pro	Cys	Ala	Leu	Val	Ala	Ser	Gln	Tyr	Gly	Trp	Ser	Gly	Asn	
	210					215					220					
Met	Glu	Arg	Ile	Met	Lys	Ala	Gln	Ala	Tyr	Gln	Thr	Gly	Lys	Asp	Ile	
225					230					235					240	
Ser	Thr	Asn	Tyr	Tyr	Ala	Ser	Gln	Lys	Lys	Thr	Phe	Glu	Ile	Asn	Pro	
			245						250					255		
Arg	His	Pro	Leu	Ile	Arg	Asp	Met	Leu	Arg	Arg	Ile	Lys	Glu	Asp	Glu	
			260					265					270			
Asp	Asp	Lys	Thr	Val	Leu	Asp	Leu	Ala	Val	Val	Leu	Phe	Glu	Thr	Ala	
		275					280					285				
Thr	Leu	Arg	Ser	Gly	Tyr	Leu	Leu	Pro	Asp	Thr	Lys	Ala	Tyr	Gly	Asp	
	290					295					300					
Arg	Ile	Glu	Arg	Met	Leu	Arg	Leu	Ser	Leu	Asn	Ile	Asp	Pro	Asp	Ala	
305					310					315					320	
Lys	Val	Glu	Glu	Glu	Pro	Glu	Glu	Glu	Pro	Glu	Glu	Thr	Ala	Glu	Asp	
			325					330					335			
Thr	Thr	Glu	Asp	Thr	Glu	Gln	Asp	Glu	Asp	Glu	Glu	Met	Asp	Val	Gly	

4594

340 345 350
 Thr Asp Glu Glu Glu Glu Thr Ala Lys Glu Ser Thr Ala Glu Lys Asp
 355 360 365
 Glu Leu
 370

<210> 5106
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 5106
 Ile Ile Ile Ile Lys Lys Ile Asn Ala Met Gln Leu Gly Met Ala Asn
 1 5 10 15
 Val Asn Ala Tyr Leu Tyr Gln Arg Leu Thr Leu Ser Ser Gly Leu Ser
 20 25 30
 Leu Val Asp Tyr Pro Trp Gln Thr Leu Asn Glu Gln Arg Glu Ala Thr
 35 40 45
 Met Leu Lys Asp Lys Ser Pro Leu Ser Ser Tyr Tyr Arg Asn Asn Val
 50 55 60

<210> 5107
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5107
 Xaa Gln Ala Thr Ala Ile Asn Thr Asp Val Asn Gly Cys Ile Cys Phe
 1 5 10 15

4595

Ala Val Val Thr Gly Leu Gly Arg Phe Gly Ile Cys Glu Arg Ile Asp
 20 25 30

Ser Phe Ser Lys Leu Phe His Lys Val Lys Lys Leu His Phe Lys Gly
 35 40 45

Asn Arg Ser Tyr Ser Ser Leu Lys Ser Xaa Ser Asn Cys Ser Phe Ile
 50 55 60

<210> 5108

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5108

Val Glu Pro Arg His Ser Ser Ala Xaa Asn Leu His Ser Leu Ser Ile
 1 5 10 15

Ser His Ser Pro Ser Leu Phe Pro Leu Trp Pro His Trp His Pro Gly
 20 25 30

Thr Phe Xaa Pro Xaa Gly Leu Cys Thr Tyr Cys Ser Asn Ser Leu Glu
 35 40 45

Cys Pro His Ser His Thr Lys Ser Leu Ala Ser Phe Thr Ala Leu Leu

4596

50 55 60
 Lys Ser His Leu Leu Ser Glu Ala Phe Pro Asp His Pro Ala Thr Asn
 65 70 75 80
 Ser Pro Ser Leu Cys Asn Ile Ala Gly Phe Phe Leu Xaa Ala Phe Ile
 85 90 95
 Ile Ser

<210> 5109

<211> 15

<212> PRT

<213> Homo sapiens

<400> 5109

Val Glu Thr Gly Phe Ile Met Leu Cys Arg Leu Leu Ser Asn Ser
 1 5 10 15

<210> 5110

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5110

Glu Lys Pro Phe Ser Ser Phe Thr Ser Met Lys Ser Ser Asp Val Phe

4597

1 5 10 15
 Ser Ser Lys Gly Met Thr Arg Trp Gly Glu Phe Asp Asp Leu Tyr Arg
 20 25 30
 Ile Ser Glu Leu Asp Arg Thr Gln Ile Pro Met Ser Glu Lys Arg Asn
 35 40 45
 Ser Gln Glu Asp Tyr Leu Ser Tyr His Ser Asn Thr Leu Lys Pro His
 50 55 60
 Ala Lys Asp Glu Pro Asp Ser Pro Val Leu Tyr Arg Thr Met Ser Glu
 65 70 75 80
 Ala Ala Leu Val Arg Lys Arg Met Lys Pro Leu Met Met Asp Arg Xaa
 85 90 95
 Glu Arg Gln Lys Asn Arg Ala Ser Ile Asn Gly His Phe Tyr Asn His
 100 105 110
 Glu Thr Ser Ile Phe Ile Pro Ala Phe Glu Ser Xaa Thr Lys Val Arg
 115 120 125
 Val Xaa Ser Xaa Met Arg Thr Glu Glu Val Ile Lys Gln Leu Leu Gln
 130 135 140

<210> 5111

<211> 112

<212> PRT

<213> Homo sapiens

<400> 5111

Arg Phe Phe Ile Ile Val Pro Lys Thr Asn Thr Leu Gln Val Val Leu
 1 5 10 15
 Glu Arg His His Phe Cys Gly Met Phe Trp Leu Gly Glu Gly Val Thr
 20 25 30
 Val Pro Thr Pro Pro Thr Ser Tyr Ala Ser Ala Leu Arg Arg Trp Leu
 35 40 45
 Phe Ile Gln Thr Trp Thr Tyr Ser Leu Pro Arg Ala Asp Glu Met Leu
 50 55 60
 Asn Phe Leu Trp Gly His Ser Leu Ile Val Pro Ala Ala Ala Thr Gly
 65 70 75 80

Ala Pro Val Val Pro Ala Thr Gln Xaa Gly Glu
20 25

<213> Homo sapiens

Arg Pro Arg Val Arg Glu Asn Leu Pro Leu Trp Gln His Ile Ser Phe
1 5 10 15

Gln Ala Leu Pro Pro Glu Leu Arg Glu Gln Thr Val His Glu Val Thr
20 25 30

Thr Val Gly Thr Ala Glu Cys Arg Lys Trp Leu Ser Arg Ser Arg Thr
35 40 45

Leu Gly Glu Leu Glu Ser Leu Asn Thr Val Leu Ser Ala Leu Leu Ala
50 55 60

Val Cys Asn Ser Ala Gly Glu Ala Leu Asp Thr Gly Lys Gln Thr Ala
65 70 75 80

Ile Ile Glu Val Val Ser Gln Leu Trp Ala Phe Leu Asn Ile Lys Gln
85 90 95

Val Ala Asp Gln Pro Tyr Val Gln Gln Thr Phe Ser Leu Leu Leu Pro
100 105 110

Leu Leu Gly Phe Phe Ile Gln Thr Leu Asp Pro Lys Leu Ile Leu Gln
115 120 125

Ala Val Thr Leu Gln Thr Ser Leu Leu Lys Leu Glu Leu Pro Asp Tyr
130 135 140

Val	Arg	Leu	Ala	Met	Leu	Asp	Phe	Val	Ser	Ser	Leu	Gly	Lys	Leu	Phe
145					150					155					160

Ile Pro Glu Ala Ile Gln Asp Arg Ile Leu Pro Asn Leu Ser Cys Met
165 170 175

Phe Ala Leu Leu Leu Ala Asp Arg Ser Trp Leu Leu Glu Gln His Thr
180 185 190

Leu Glu Ala Phe Thr Gln Phe Ala Glu Gly Thr Asn His Glu Glu Ile
195 200 205

4600

Val Pro Gln Cys Leu Ser Ser Glu Glu Thr Lys Asn Lys Val Val Ser
 210 215 220

Phe Leu Glu Lys Thr Gly Phe Val Asp Glu Thr Glu Ala Ala Lys Val
 225 230 235 240

Glu Arg Val Lys Gln Glu Lys Gly Ile Phe Trp Glu Pro Phe Ala Asn
 245 250 255

Val Thr Val Glu Glu Ala Lys Arg Ser Ser Leu Gln Pro Tyr Ala Lys
 260 265 270

Arg Ala Arg Gln Glu Phe Pro Trp Glu Glu Glu Tyr Arg Ser Ala Leu
 275 280 285

His Thr Ile Ala Gly Ala Leu Glu Ala Thr Glu Ser Leu Leu Gln Lys
 290 295 300

Gly Pro Ala Pro Ala Trp Leu Ser Met Glu Met Glu Ala Leu Gln Glu
 305 310 315 320

Arg Met Asp Lys Leu Lys Arg Tyr Ile His Thr Leu Gly
 325 330

<210> 5115

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5115

Glu Gln Gln Leu Arg Arg Gly Gly Arg Val Gly Gly Gln Pro Tyr Val
 1 5 10 15

Trp Ser Thr Gln Arg Pro Ala Ile Pro Ile Ser Val Leu Leu Ser Ile
 20 25 30

Ser Ser Glu Asp Leu Ser Glu Asn Arg Ala Gly Met Arg Ser Gln Thr
 35 40 45

<210> 5116

<211> 40

<212> PRT

<213> Homo sapiens

4601

<400> 5116

Asn Pro Ile Ser Thr Lys Asn Ala Lys Ile Ser His Val Trp Cys Tyr
1 5 10 15

Ala Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
20 25 30

Glu Pro Arg Arg Arg Arg Leu Trp
35 40

<210> 5117

<211> 32

<212> PRT

<213> Homo sapiens

<400> 5117

Asn His Leu Ile Cys Lys Leu Glu Trp Ala Leu Glu Asn His Thr Val
1 5 10 15

Phe Leu Ser His Phe Thr Gly Lys Ile Thr Asp Val Ser Ile Cys Asp
20 25 30

<210> 5118

<211> 16

<212> PRT

<213> Homo sapiens

<400> 5118

Asn Phe Ile Ala Leu Ser Ser Tyr Ile Ile Lys Glu Asp Lys Pro Gln
1 5 10 15

<210> 5119

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

4602

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5119

Pro Leu Pro His Ala Asp Leu Gln Gln Val Ala Gln Xaa Glu Pro Asn
1 5 10 15

Asn Ala Tyr Asp Glu Glu Asp Cys Val Glu Met Val Ala Ser Gly Gly
20 25 30

Trp Asn Asp Val Ala Cys His Thr Thr Met Tyr Phe Met Cys Glu Phe
35 40 45

Asp Lys Glu Asn Met
50

<210> 5120

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5120

Ser Leu Asp Ile His Lys Glu Arg Arg Tyr Ser Asp Glu Gly Asp His
1 5 10 15

Asn Ser Val Val Leu Met Ile Leu Asp Tyr Asn Leu Phe Leu Phe Ile
20 25 30

Phe His Ser Phe Phe Lys Asn Met Asp Cys Ile Leu Ser Thr Thr Ile
35 40 45

Ser Gln Ile Pro Lys Ile Val Leu Thr Phe Ser Asp Tyr
50 55 60

<210> 5121

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

4603

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5121

Gln Asn Asn Thr Val Leu Val Glu Gly Cys Phe Cys Pro Glu Gly Thr
 1 5 10 15

Met Asn Tyr Ala Pro Gly Phe Asp Val Cys Val Lys Thr Cys Gly Cys
 20 25 30

Xaa Gly Pro Asp Asn Val Pro Arg Glu Phe Gly Glu His Phe Glu Phe
 35 40 45

Asp Cys Lys Asn Cys Val Cys Leu Glu Gly Gly Ser Gly Ile Ile Cys
 50 55 60

Gln Pro Lys Arg Cys Ser Gln Lys Pro Val Thr His Cys Val Glu Asp
 65 70 75 80

Gly Thr Tyr Leu Ala Thr Glu Val Asn Pro Ala Asp Thr Cys Cys Asn
 85 90 95

Xaa Thr Val Cys Lys Cys Gln His Gln Pro Val Gln Arg Glu Ala Leu
 100 105 110

Arg Val Pro Ala Gly Asn Ser Lys Trp Lys Ser Lys Met Val Pro Gly
 115 120 125

Lys Cys Cys Pro Phe Tyr Trp Cys Glu Val Gln Gly Gly Val Cys Ser
 130 135 140

Arg Gly Met Leu Ser Thr Ser Pro Val Leu Pro Val Tyr Ser Ser Lys
 145 150 155 160

Trp Pro Gly Leu Ala Cys Xaa Lys Gly Gln Gly Gly Thr Thr Thr Thr
 165 170 175

Leu Xaa Gln Arg Ser Leu Ala Trp Gln Pro Thr Gly Gly
 180 185

<210> 5122

4604

<211> 225

<212> PRT

<213> Homo sapiens

<400> 5122

Glu Ala Ser Ser Pro Thr Phe Ser Lys Glu Pro Met Lys Val Gln Asp
 1 5 10 15

Ser Val Leu Ile Lys Ala Asp Asn Thr Ile Glu Gly Asp Asn Asn Glu
 20 25 30

Gln Asn Tyr Ile Lys Asp Val Lys Leu Glu Asp His Leu Leu Ala Gly
 35 40 45

Ser Cys Leu Lys Gln Ser Ser Lys Asn Ile Phe Thr Glu Arg Ala Glu
 50 55 60

Asp Gln Ile Lys Ile Ser Thr Arg Lys Gln Lys Ser Val Lys Glu Ile
 65 70 75 80

Ser Ser Tyr Thr Pro Lys Asp Cys Thr Ser Arg Asn Gly Pro Glu Arg
 85 90 95

Gly Cys Asp Arg Gly Ile Ile Val Ser Thr Arg Leu Leu Thr Asp Ser
 100 105 110

Ser Thr Asp Ala Leu Glu Lys Val Ser Thr Ser Asn Glu Asp Phe Ser
 115 120 125

Leu Lys Asp Asp Ala Leu Ala Lys Thr Ser Lys Arg Lys Thr Lys Val
 130 135 140

Gln Lys Asp Glu Ile Cys Ala Lys Leu Ser His Val Ile Lys Lys Gln
 145 150 155 160

His Arg Lys Ser Thr Leu Val Asp Asn Thr Ile Asn Leu Asp Glu Asn
 165 170 175

Leu Thr Val Ser Asn Ile Glu Ser Phe Tyr Ser Arg Lys Asp Thr Gly
 180 185 190

Val Gln Lys Gly Asp Gly Phe Ile His Asn Leu Ser Leu Asp Pro Ser
 195 200 205

Gly Val Leu Asp Asp Lys Asn Gly Glu Gln Lys Ser Gln Asn Asn Val
 210 215 220

Leu
 225

4605

<210> 5123

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5123

Glu	Gln	Lys	Gly	Ser	Arg	Glu	Trp	Gly	Ser	Lys	Asn	Gly	Ser	Arg	Val
1				5				10						15	

Arg	Met	Arg	Ser	Gln	Xaa	Lys	Trp	Cys	Phe	Xaa	Gly	Gly	His	Lys	Glu
			20					25					30		

Gly	Arg	Val	Ile	Asp	Phe
			35		

<210> 5124

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5124

Cys	Gln	Thr	Ile	Trp	Arg	Ser	Ile	Arg	Gly	Leu	Thr	Gly	His	Ile	Ile
1				5					10					15	

Arg	Gln	Pro	His	Phe	Ser	Ser	Ser	Ser	Met	Arg	Lys	Trp	Met	Ile	Ser
			20					25					30		

Leu	Phe	His	Met	Ser	Leu	Gly	Glu	Arg	Leu	Pro	Val	Pro	Leu	Lys	Leu
			35				40						45		

Cys	Ile	Leu	Leu	Glu	Thr	Glu	Ala	Ser	Arg	Trp	Leu	Trp	Gln	Leu	Ala
			50				55					60			

Lys	Ala	Lys	Met	Leu	Cys	Ala
			65			70

4606

<210> 5125
 <211> 184
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (184)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5125
 Arg Arg Val Gln Gln Glu Ile Asp Asp Val Ile Gly Gln Val Arg Arg
 1 5 10 15
 Pro Glu Met Gly Asp Gln Ala His Met Pro Tyr Thr Thr Ala Val Ile
 20 25 30
 His Glu Val Gln Arg Phe Gly Asp Ile Val Pro Xaa Gly Val Thr His
 35 40 45
 Met Thr Ser Arg Asp Ile Glu Val Gln Gly Phe Arg Ile Pro Lys Gly
 50 55 60
 Thr Thr Leu Ile Thr Asn Leu Ser Ser Val Leu Lys Asp Glu Ala Val
 65 70 75 80
 Trp Glu Lys Pro Phe Arg Phe His Pro Glu His Phe Leu Asp Ala Gln
 85 90 95
 Gly His Phe Val Lys Pro Glu Ala Phe Leu Pro Phe Ser Ala Gly Arg
 100 105 110
 Arg Ala Cys Leu Gly Glu Pro Leu Ala Arg Met Glu Leu Phe Leu Phe
 115 120 125
 Phe Thr Ser Leu Leu Gln His Phe Ser Phe Ser Val Pro Thr Gly Gln
 130 135 140
 Pro Arg Pro Ser His His Gly Val Phe Ala Phe Leu Val Ser Pro Ser
 145 150 155 160

4607

Pro Tyr Glu Leu Cys Ala Val Pro Arg Arg Met Gly Tyr Leu Val Pro
 165 170 175

Ser Leu Leu Pro Xaa Gln Arg Xaa
 180

<210> 5126

<211> 84

<212> PRT

<213> Homo sapiens

<400> 5126

Ala Gln Val Ser Phe Ser Pro Trp Met Ala Ser Ala Ala Pro Gly Arg
 1 5 10 15

Pro His Leu Val Leu Tyr Cys Glu Ser Leu Ala Thr Gln Val Arg Ser
 20 25 30

Gly Pro Gly Pro Arg Met Ala Ser Val Ala Arg Lys Tyr Ala Lys Glu
 35 40 45

Glu Val Asn Pro Ile Ala Gly Leu Glu Asp Ser Asp Gln Thr Thr Arg
 50 55 60

Gly Leu Leu Asn Lys Gly Arg Arg Cys Pro Cys Leu Met Gly Leu Ala
 65 70 75 80

Trp Gly Gly Gly

<210> 5127

<211> 124

<212> PRT

<213> Homo sapiens.

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5127

Arg Pro Pro Thr Thr Thr Lys Phe Ala Xaa Ala Arg Gln Met Ala Gly

4608

1 5 10 15
 Lys Gln Ala Val Ser Xaa Ser Gly Lys Trp Leu Asp Gly Ile Arg Lys
 20 25 30
 Trp Tyr Tyr Asn Ala Ala Gly Phe Asn Lys Leu Gly Leu Met Arg Asp
 35 40 45
 Asp Thr Ile Tyr Glu Asp Glu Asp Val Lys Glu Ala Ile Arg Arg Leu
 50 55 60
 Pro Glu Asn Leu Tyr Asn Asp Arg Met Phe Arg Ile Lys Arg Ala Leu
 65 70 75 80
 Asp Leu Asn Leu Lys His Gln Ile Leu Pro Lys Glu Gln Trp Thr Lys
 85 90 95
 Tyr Glu Glu Glu Asn Phe Tyr Leu Glu Pro Tyr Leu Lys Glu Val Ile
 100 105 110
 Arg Glu Arg Lys Glu Arg Glu Glu Trp Ala Lys Lys
 115 120

<210> 5128

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5128

Tyr Gln Leu Gln Ala Gly Arg Glu Ser Leu Gln His Gly Pro Lys Met
 1 5 10 15
 Leu Ser Leu Gln Thr Gly Glu Gly Gln Val Gly Ser His Ser Ser Glu
 20 25 30
 Ser Leu Tyr Tyr Thr Ile Glu Ser Tyr Val Phe Ser Arg Phe Gly Val
 35 40 45
 Glu Ala Ile His Ile Tyr Glu Glu Ser Gln Ala Gln Glu Gln
 50 55 60

<210> 5129

<211> 49

<212> PRT

<213> Homo sapiens

<220>

4609

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5129

Phe Lys Trp Val Pro Gln Asn Leu Val Val Ile Leu Leu Gly Ile Phe
 1 5 10 15

Val Gln Tyr Ile Ala Leu Xaa Ser Ser Pro Thr Phe Ser Pro Leu Arg
 20 25 30

Lys His Leu His Phe Leu Ser Ser Pro Asn Trp Glu Asn Met Gln Ile
 35 40 45

Leu

<210> 5130

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5130

Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Asn Lys Cys
 1 5 10 15

Xaa Val Xaa Phe Ile Thr Asn Ile Asn Ile Ile Phe Leu Leu Phe Ile
 20 25 30

Leu Tyr Ala Ser Phe Tyr Thr Phe Thr His Thr Lys Asn Ile Lys Asn
 35 40 45

Ile Ser Asn Tyr Ser Ile Leu Val Glu Phe Ser Leu Lys
 50 55 60

<210> 5131

<211> 58

4610

<212> PRT

<213> Homo sapiens

<400> 5131

```

Ile Tyr Val Lys His Lys Pro Leu Ile Phe Leu Lys Lys Ser Arg Leu
 1             5             10             15

Leu Phe Phe His Ile Ile Ser Glu Pro Phe Ser Ser Phe Ala Cys Pro
          20             25             30

Leu Leu Gln Asn His Thr Asp Phe Val Leu His Phe Ile His His Leu
          35             40             45

Leu Lys Cys Pro Leu Lys Cys Asn Gly Ile
          50             55

```

<210> 5132

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5132

```

Asn Ala Lys Ser Gln Met Tyr Leu Ser Met Asn Phe Asp Ala Cys Thr
 1             5             10             15

His Leu Tyr Asn Ser Asn His Tyr Xaa Asp Val Glu His Asp His His
          20             25             30

Thr Arg Gly Pro Pro Ala Pro Ser Gln Leu Ile Leu Ile Ser Thr Pro
          35             40             45

Glu Ser Asn His Ser Ser Asp Phe Phe His His Arg Leu Val
          50             55             60

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<210> 5133

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5133

```

Arg Lys Pro Leu Trp Cys Leu Asn Asp Lys Tyr Ala Asp Ala Thr Leu
 1             5             10             15

```

4611

Leu Cys Leu Met Tyr Gly Ala Leu Gly Gln Leu Phe Asn Ile Lys Gln
 20 25 30

Leu Arg Thr Cys Phe Arg Lys Cys Cys Ser Phe Ala Leu His Ala Lys
 35 40 45

Val Leu Gly Lys Lys Leu Thr Ile Cys Lys Asn Ile Asp Ala Gln Ala
 50 55 60

His Lys Glu Phe Ile Leu
 65 70

<210> 5134

<211> 96

<212> PRT

<213> Homo sapiens

<400> 5134

Lys Leu Pro Asn Phe Tyr Gln Leu Glu Gly His Pro Trp Val Phe Val
 1 5 10 15

Arg Ser Tyr Leu Met Ser Leu Cys Leu Gly Asp Ser Ala Gly Trp Ser
 20 25 30

Leu Gly Pro Gly Gly Pro Ser Pro Gly Val Cys Arg Trp Thr Arg Ser
 35 40 45

Pro Thr Gly Asp Ile Asn Leu Arg Val Ala Ser Leu Glu Thr Gly Thr
 50 55 60

Trp Ala Ala Leu Phe Pro Ser Pro Leu Leu Arg Gly Leu Gly Arg Cys
 65 70 75 80

Cys Phe His Ala Ala Ser Thr Ile Thr Leu Gly Phe Leu Asp Gly Lys
 85 90 95

<210> 5135

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5135

His Asp Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe

4612

1 5 10 15
 Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Ser
 20 25 30
 Arg Pro Gly Asn Phe Phe Val Leu Leu Val Glu Thr Val Ile His Tyr
 35 40 45
 Val Gly Gln Ala Ser His Glu Leu Leu Thr Ser
 50 55

<210> 5136

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5136

Gly Phe Ile Gln Arg Ser Asn Phe Leu Xaa Xaa Gln Lys Ile His Thr
 1 5 10 15

Glu Glu Lys Leu Tyr Glu Cys Ser Gln Tyr Gly Arg Asp Phe Asn Ser
 20 25 30

Thr Thr Asn Val Lys Asn Asn Gln Arg Val His Gln Glu Gly Leu Ser
 35 40 45

Leu Ser Lys Ala Pro Ile His Leu Gly Glu Arg Ser Val Asp Lys Gly
 50 55 60

Glu His Thr Gly Asn Leu
 65 70

<210> 5137

<211> 78

<212> PRT

<213> Homo sapiens

4613

<400> 5137

```

Pro Val Ser Phe Tyr Leu Pro Leu Pro Phe Trp Met Lys Met Leu Ile
 1             5             10             15

Val Gly His Phe Leu Ala Arg Thr Ala Leu Val Pro Leu Thr His Lys
          20             25             30

Thr Arg Leu Leu Ser Phe Ile Asp Thr Ser Ile Lys Lys Arg Phe Lys
      35             40             45

Asp Arg Ala Arg Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
      50             55             60

Glu Ala Gly Gly Ser Pro Glu Val Gly Ser Ser Arg Pro Ala
 65             70             75

```

<210> 5138

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5138

```

Ile Pro Arg Leu Leu Cys Ser Thr Gly Gln Thr Ser Trp Ser Ile Cys
 1             5             10             15

Val Gly Glu Thr Trp Glu Lys Ala Lys Thr Met Cys Glu Cys Tyr Asp
          20             25             30

Tyr Leu Phe Asp Ile Ala Val Ser Met Lys Lys Val Gly Leu Asp Pro
      35             40             45

Ser Gln Leu Pro Val Gly Glu Asn Gly Ile Val
      50             55

```

<210> 5139

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5139

```

Asp Phe Phe Ser Leu Tyr Phe His Pro Thr Asn His Leu Glu Ser Gly
 1             5             10             15

Ile Lys Gly Ile Asn Gln Glu Lys Thr Glu Gly Gln Glu Thr Glu Pro
      20             25             30

Asn Lys Gly Asp Pro Ser Gln Gly Ala Trp Glu Ser Ala Gly Leu Asp

```

4614

35

40

45

Ala Pro Pro Ser Ser Ala Ser Tyr
 50 55

<210> 5140

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5140

Thr Gly Leu Glu Thr Leu Gly Ser Gln His Leu Tyr Phe Leu Val Arg
 1 5 10 15

Lys Trp Ala Trp Arg Cys Trp Glu Ile Lys Arg Gly Val Gly Glu Asp
 20 25 30

Pro Val Ser Val Ser Ser Cys Val Val Asp Val Asn Leu Ala Val Asn
 35 40 45

Val Ala Gly Cys Val Ser Cys Leu Leu Ser Asn Cys Trp Leu Pro Arg
 50 55 60

His Ser Val Leu Leu Xaa Phe Ser Glu Phe His
 65 70 75

<210> 5141

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5141

His Ala Ser Ser Leu Gly Asp Arg Val Arg Leu Phe Leu Lys Ile Lys
 1 5 10 15

Thr Lys Asn Lys Phe Leu Leu Glu Val Gly Trp Arg Trp Gly Ala Arg
 20 25 30

Ile

4615

<210> 5142

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5142

Met Tyr Ser Lys Val Trp Leu Pro Phe Arg Ser Leu Gly Gly Ala Val
 1 5 10 15

Leu Asn Ser Phe Ser Asn Arg Ala Thr Phe Tyr Phe Leu Ile Glu Leu
 20 25 30

Leu Phe Asn Phe Tyr Phe Leu Ile Gly Xaa
 35 40

<210> 5143

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5143

Ala Gly Pro Glu Leu Pro Pro Leu Gln Val Gln Met His Arg Cys Ser
 1 5 10 15

Cys Pro Ser Val Ser Ser Gln Gly Cys Lys Arg Arg Thr His Pro Ser
 20 25 30

Arg Lys Gln Pro Glu Pro Gly Thr Gly Cys Ala Lys Glu His Cys Tyr
 35 40 45

Gln Val Glu Glu Arg Gly Leu Pro Cys Thr Gln Asp Val Glu Ser Leu
 50 55 60

Leu Arg Ser Glu Gln Lys Ile Lys Asn Lys Ser Leu Leu Lys Gly Leu
 65 70 75 80

Ile Gly Gln Val Cys Phe Ser Leu Glu Gln Cys Phe Ala Leu Glu Asn
 85 90 95

Cys Lys Ile Tyr Val Met Thr Gln Tyr Ile Cys Val Arg Thr Tyr Met
 100 105 110

Ile Gly Ile Lys Cys Leu

4616

115

<210> 5144

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5144

Ser Gln Lys Gly Arg Val Ile Ile Lys Glu Glu Ser Asp Gln Glu Ser
1 5 10 15

Lys Ile Asp Arg Glu Ser Arg Leu Leu Glu Lys Trp Glu Asn Tyr Arg
20 25 30

Thr Asp Ser Ala Arg Arg Arg Gln Ala Gly Glu Glu Arg Pro Ser Gln
35 40 45

Ser Ser Thr Cys Ala Asn Arg Lys Cys Val Arg Gly Phe Leu Glu Leu
50 55 60

Thr Gly Ala Gly Asp His
65 70

<210> 5145

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5145

Val Met Asn Ile Arg Ile Ile Ala Leu Ser Ala Gly Ser Phe Thr Arg
1 5 10 15

4617

Gln Glu Phe Xaa Asn Cys Pro Ile Asn Ile Cys Leu Xaa Ser Cys Lys
 20 25 30

Lys Asp Xaa Phe Ile Phe Cys Ile Phe Ile Thr
 35 40

<210> 5146

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5146

Phe Gly Ser Leu Lys Met Leu Cys Gly Ala Lys Gln Ile Val Cys Gln
 1 5 10 15

Met Trp Pro Ser Ser Cys Gln Ser Cys Leu Tyr Gln Asp Ala Ser Leu
 20 25 30

Leu Thr Asn Ser His Ile Ala Thr Gly Val Glu Thr Val Leu Ala Thr
 35 40 45

Lys Leu Xaa Gly Phe His
 50

<210> 5147

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

4618

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5147

Trp	Tyr	Pro	Xaa	Pro	Pro	Gly	Xaa	Asp	Xaa	Asp	Gly	Pro	Lys	Ser	His
1				5					10					15	

Leu	Gly	Xaa	Arg	Leu	Tyr	Gly	Lys	Xaa	Gly	Leu	Ser	Asn	Tyr	Phe	Gln
			20					25						30	

Tyr	Ser	Ile	Val	Phe	His	Cys	Pro	Phe	Val	Phe	His	Lys	Leu	Asn	Asp
		35						40					45		

Cys	Leu	Ile	Phe	Pro	Lys	Ile	Tyr	Phe
	50					55		

<210> 5148

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5148

Val	Phe	Glu	Pro	Thr	Ser	His	Ala	Thr	Ser	His	Lys	Xaa	Thr	Tyr	His
1				5					10					15	

Leu	Arg	Thr	Ser	Ser	Ala	Lys	Met	Pro	Glu	Asn	Ile	Gln	Ser	Ser	Trp
			20						25					30	

Gln	Met	Thr	Gln	Gly	Ser	Leu	Ala	Leu	Leu	Thr	Ile	Phe	Leu	Ala	Asn
		35					40					45			

Leu	Asp	Trp	Lys	Gly	His	Leu	Gln	His	Cys	Pro	Gly	Ala	Asn	Thr	Leu
	50						55					60			

Phe	His	Cys	Leu	Cys	His	Ile	Met	Met	Pro	Ala	Leu	Ala	Ser	Trp	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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65                               70                               75                               80
Val Phe Gly Gly Ile Leu His Glu Asp Cys Pro Ile Arg Gly Arg Tyr
                        85                               90                               95
Thr Tyr Leu Ala Lys
                        100

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<210> 5150

4620

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5150

Ala Leu Leu Cys Arg Ser Ser Ser Tyr Ile Gly Pro Phe Lys Lys Leu
1 5 10 15

Pro Ala Glu Ile Pro Gly Val Ile Cys Leu Glu His Xaa Pro Leu Thr
20 25 30

Ser Ser Thr His Leu Leu Ala Ala Pro Arg His Ser Ser Asn Leu Ile
35 40 45

Leu Asn Val Ile Ser Leu Lys Lys Pro Phe Leu Thr Gln Ser Lys Ile
50 55 60

Ser Thr Phe Gly Tyr Ser Leu Ser Gln His Leu Asp Phe Phe Pro Ser
65 70 75 80

<210> 5151

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5151

Ser Phe Cys Leu Tyr Lys Ser Thr Cys Ser Cys Ala Asn Pro Ser Val
1 5 10 15

Asp Ser Trp Gln His Glu Ser Leu Ile Pro Gly Tyr Asn
20 25

<210> 5152

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4621

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5152

Val	Ser	Pro	Ser	Pro	Pro	Trp	Thr	Pro	Pro	Gly	Ala	Asp	Arg	Pro	Met
1				5				10						15	
Glu	Ser	Gln	Gly	Val	Pro	Pro	Gly	Pro	Tyr	Arg	Ala	Thr	Lys	Leu	Trp
			20					25					30		
Asn	Glu	Val	Thr	Thr	Ser	Phe	Arg	Ala	Gly	Met	Pro	Leu	Arg	Lys	His
			35				40					45			
Arg	Gln	His	Phe	Lys	Lys	Tyr	Gly	Asn	Cys	Phe	Thr	Ala	Gly	Glu	Ala
		50				55					60				
Val	Asp	Trp	Leu	Tyr	Asp	Leu	Leu	Arg	Asn	Asn	Ser	Asn	Phe	Gly	Pro
65					70				75					80	
Glu	Val	Thr	Arg	Gln	Gln	Thr	Ile	Gln	Leu	Leu	Arg	Lys	Phe	Leu	Lys
				85				90						95	
Asn	His	Val	Ile	Glu	Asp	Ile	Lys	Gly	Arg	Trp	Gly	Ser	Glu	Asn	Val
			100					105					110		
Asp	Asp	Asn	Asn	Gln	Leu	Phe	Arg	Phe	Pro	Ala	Thr	Ser	Pro	Leu	Lys
		115					120					125			
Thr	Leu	Pro	Arg	Arg	Tyr	Pro	Glu	Leu	Arg	Lys	Asn	Asn	Ile	Glu	Asn
		130				135					140				
Phe	Ser	Lys	Asp	Lys	Asp	Ser	Ile	Phe	Lys	Leu	Arg	Asn	Leu	Ser	Arg
145					150					155				160	
Arg	Thr	Pro	Lys	Arg	His	Gly	Leu	His	Leu	Ser	Xaa	Glu	Asn	Gly	Glu
				165				170						175	
Lys	Ile	Asn	Met	Lys											
			180												

<210> 5153

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4622

<400> 5153

Asn Lys Tyr Asn Met Tyr Ile Pro Asp Leu Leu Ser Ile Leu Tyr Lys
 1 5 10 15

Val Ala Met Thr Lys Gly Ala Asn Lys Tyr Tyr Ile Ile Tyr Leu Ala
 20 25 30

Phe Leu Leu His Glu Met Met Trp Val Xaa
 35 40

<210> 5154

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5154

Glu Val Gly Phe Ser Leu Pro Ser Pro Gly Pro Val Cys Pro Tyr Pro
 1 5 10 15

Arg Pro Ala Ser Cys Ala Gln Ile Leu Phe Cys Leu Trp Lys Leu Leu
 20 25 30

Asp His Pro Arg Ser Ala Ala Cys Pro Asp Pro Tyr Pro Arg Ala Ser
 35 40 45

Leu Ser Ser Trp Glu Ala Gly Gln Ala Pro Val Arg Phe Arg Cys Ala
 50 55 60

Leu Cys Leu Ser Leu Asp Ser Arg Ala Asp Glu Pro Gln His His His
 65 70 75 80

Pro Ala Thr Tyr Lys Val Gly Asp Leu Gly Leu Gly Ser Gln Ala Gln
 85 90 95

Thr Gly Gly Pro His Ser Pro Leu Gly Pro Leu Pro Thr Pro Val Pro
 100 105 110

Ser Val Pro Gln Ser Gly Gly Ala Ser Arg Ala Ile Ser Asp Xaa Ala
 115 120 125

Gly Pro Arg
 130

4623

<210> 5155

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5155

Ala Lys Pro Leu Lys Leu Lys His Ile Ser Tyr Leu Lys His Leu Gly
1 5 10 15

Asn Thr Thr Val Lys Tyr Leu Ser Asn Ile Gln Tyr Met Glu Phe Ile
20 25 30

Pro Thr Phe Val Cys Ile Ser Ile Cys Lys Leu Leu Leu Arg Arg Ile
35 40 45

Glu Ser Leu Asp Tyr Phe Arg Ile Gln Leu Leu Gln Phe Ser Ile Val
50 55 60

Asp
.65

<210> 5156

<211> 31

<212> PRT

<213> Homo sapiens

<400> 5156

Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Arg Pro Trp Tyr
1 5 10 15

His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg
20 25 30

<210> 5157

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4624

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5157

Ala Asp Ala Trp Ala Arg Ser Phe Leu Val Asp Ser Leu Val Leu Arg
1 5 10 15

Glu Ala Gly Glu Lys Lys Ala Pro Glu Gly Ser Pro Pro Pro Leu Phe
20 25 30

Pro Tyr Ala Val Pro Pro Pro His Ala Leu His Gly Leu Ser Pro Gly
35 40 45

Ala Cys His Ala Arg Lys Ala Gly Leu Leu Cys Val Cys Pro Leu Cys
50 55 60

Val Thr Ala Ser Gln Xaa His Gly Pro Pro Gly Pro Pro Arg Cys Leu
65 70 75 80

Tyr Ser Arg Leu Pro Ser His Pro Ser Ala Arg Ser Thr Ala Arg Ala
85 90 95

Pro Gly Pro Xaa Ala Leu Cys Xaa Val Ala Arg Gly
100 105

<210> 5158

<211> 438

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (413)

<223> Xaa equals any of the naturally occurring L-amino acids

4625

<220>

<221> SITE

<222> (428)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5158

Glu	Ala	Gln	Ala	Tyr	Thr	Ala	Tyr	Leu	Ser	Gly	Met	Leu	Arg	Phe	Glu
1				5				10				15			

His	Gln	Glu	Trp	Lys	Ala	Ala	Ile	Glu	Ala	Phe	Asn	Lys	Cys	Lys	Thr
		20						25				30			

Ile	Tyr	Glu	Lys	Leu	Ala	Ser	Ala	Phe	Thr	Glu	Glu	Gln	Ala	Val	Leu
		35					40					45			

Tyr	Asn	Gln	Arg	Val	Glu	Glu	Ile	Ser	Pro	Asn	Ile	Arg	Tyr	Cys	Ala
	50					55				60					

Tyr	Asn	Ile	Gly	Asp	Gln	Ser	Ala	Ile	Asn	Glu	Leu	Met	Gln	Met	Arg
65					70					75					80

Leu	Arg	Ser	Gly	Gly	Thr	Glu	Gly	Leu	Leu	Ala	Glu	Lys	Leu	Glu	Ala
			85					90						95	

Leu	Ile	Thr	Gln	Thr	Arg	Ala	Lys	Gln	Ala	Ala	Thr	Met	Ser	Glu	Val
		100						105					110		

Glu	Trp	Arg	Gly	Arg	Thr	Val	Pro	Val	Lys	Ile	Asp	Lys	Val	Arg	Ile
	115						120					125			

Phe	Leu	Leu	Gly	Leu	Ala	Asp	Asn	Glu	Ala	Ala	Ile	Val	Gln	Ala	Glu
	130					135					140				

Ser	Glu	Glu	Thr	Lys	Glu	Arg	Leu	Phe	Glu	Ser	Met	Leu	Ser	Glu	Cys
145					150					155					160

Arg	Asp	Ala	Ile	Gln	Val	Val	Arg	Glu	Glu	Leu	Lys	Pro	Asp	Gln	Lys
			165						170					175	

Gln	Arg	Asp	Tyr	Ile	Leu	Glu	Gly	Glu	Pro	Gly	Lys	Val	Ser	Asn	Leu
		180						185					190		

Gln	Tyr	Leu	His	Ser	Tyr	Leu	Thr	Tyr	Ile	Lys	Leu	Ser	Thr	Ala	Ile
	195						200					205			

Lys	Arg	Asn	Glu	Asn	Met	Ala	Lys	Gly	Leu	Gln	Arg	Ala	Leu	Leu	Gln
	210					215					220				

Gln	Gln	Pro	Glu	Asp	Asp	Ser	Lys	Arg	Ser	Pro	Arg	Pro	Gln	Asp	Leu
225					230					235					240

4626

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Ile Arg Leu Tyr Asp Ile Ile Leu Gln Asn Leu Val Glu Leu Leu Gln
      245                      250                      255

Leu Pro Gly Leu Glu Glu Asp Lys Ala Phe Gln Lys Glu Ile Gly Leu
      260                      265                      270

Lys Thr Leu Val Phe Lys Ala Tyr Arg Cys Phe Phe Ile Ala Gln Ser
      275                      280                      285

Tyr Val Leu Val Lys Lys Trp Ser Glu Ala Xaa Val Leu Tyr Asp Arg
      290                      295                      300

Val Leu Lys Tyr Ala Asn Glu Val Asn Ser Asp Ala Gly Ala Phe Lys
305                      310                      315                      320

Asn Ser Leu Lys Asp Leu Pro Asp Val Gln Glu Leu Ile Thr Gln Val
      325                      330                      335

Arg Ser Glu Lys Cys Ser Leu Gln Ala Ala Ala Ile Leu Asp Ala Asn
      340                      345                      350

Asp Ala His Gln Thr Glu Thr Ser Ser Ser Gln Val Lys Asp Asn Lys
      355                      360                      365

Pro Leu Val Glu Arg Phe Glu Thr Phe Cys Leu Gly Pro Phe Pro Cys
      370                      375                      380

Ser Pro Ser Lys Pro Thr Leu Trp His Phe Pro Pro Xaa Phe Gln Pro
385                      390                      395                      400

Phe Pro Trp Gln Gly Phe Cys Ser Leu Asp Trp Ala Xaa Lys Pro Cys
      405                      410                      415

Gly Leu Phe Pro Pro Leu Glu Gly Gln Val Trp Xaa Arg Lys Asp Gln
      420                      425                      430

Glu Trp Ala His Trp Val
      435

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<210> 5159

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

4628

180	185	190
Pro Arg Arg Met Arg Arg Ser	Pro Leu Met Arg Leu Ile Lys Thr Leu	
195	200	205
Pro Glu Ile Leu Pro Arg Glu Ala Ser Ser Glu Met Gly Arg Ser Ile		
210	215	220
Gln Arg Ala Gln Gly Leu Ala Gly Ser Ala Gly Phe Asp Arg Ser Pro		
225	230	235 240
Pro Arg Thr His Pro Pro Leu Glu Thr Arg Thr Pro Gln Thr Ala Leu		
245	250	255
Thr Leu Arg Arg Pro Pro Glu His Xaa Leu Pro Thr Arg Leu Ala Trp		
260	265	270
Ala Phe His		
275		

<210> 5160

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5160

Leu Asp Val Asn Phe Gly Asp Thr Val Gln His Thr Pro Pro Arg Ala
1 5 10 15

4630

His Gly Asp Val Ile Arg Pro Leu Arg Lys Gln Val Glu Leu Leu Phe
 65 70 75 80
 Asn Thr Arg Tyr Ala Lys Ala Ile Gly Ile Ser Glu Pro Val Lys Val
 85 90 95
 Pro Tyr Ser Lys Phe Leu Met His Pro Glu Glu Leu Phe Val Val Gly
 100 105 110
 Leu Pro Glu Gly Ile Ser Leu Arg Arg Pro Asn Cys Phe Gly Ile Ala
 115 120 125
 Lys Leu Arg Lys Ile Leu Glu Ala Ser Asn Ser Ile Gln Phe Val Ile
 130 135 140
 Lys Arg Pro Glu Leu Leu Thr Glu Glu Ser Lys Ser Pro Ser Trp Ile
 145 150 155 160
 Val Asn Glu

<210> 5162

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5162

Lys Pro Thr Cys Asn Glu Leu Ile Lys Thr Ile Ile Ile Gln His Glu
 1 5 10 15
 Asn Ile Phe Pro Ser Pro Arg Xaa Leu Glu Gly Pro Val Tyr Ser Arg
 20 25 30
 Gly Gly Ser Met Glu Asp Tyr Cys Asp Ser Pro His Gly Glu Thr Thr
 35 40 45
 Ser Val Glu Asp Ser Thr Gln Asp Val Thr Ala Glu His His Thr Ser
 50 55 60
 Asp Asp Glu Cys Glu Pro Ile Glu Ala Ile Ala Lys Phe Asp Tyr Val
 65 70 75 80
 Gly Arg Thr Ala Arg Glu Leu Ser Phe Lys Lys Gly Ala Ser Leu Leu

4631

				85					90					95					
Leu	Tyr	Gln	Arg	Ala	Ser	Asp	Asp	Trp	Trp	Glu	Gly	Arg	His	Asn	Gly				
			100					105					110						
Ile	Asp	Gly	Leu	Ile	Pro	His	Gln	Tyr	Ile	Val	Val	Gln	Asp	Thr	Glu				
		115					120					125							
Asp	Gly	Val	Val	Glu	Arg	Ser	Ser	Pro	Lys	Ser	Glu	Ile	Glu	Val	Ile				
	130					135					140								
Ser	Glu	Pro	Pro	Glu	Glu	Lys	Val	Thr	Ala	Arg	Ala	Gly	Ala	Ser	Cys				
145					150					155					160				
Pro	Ser	Gly	Gly	His	Val	Ala	Arg	Tyr	Leu	Ser	Cys	Lys	His	Gln	Gln				
				165					170					175					
Ala	Lys	Glu	Ala	Ser	Arg	Ile	Trp	Glu	Ala	Ser	Glu	Asn	Phe	Ser	Glu				
			180					185					190						

<210> 5163

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5163

Ala Arg Ala Arg Ala Glu Phe Gly Thr Ser Ser Thr Asn Leu His Leu
1 5 10 15

Glu Ser Glu Leu Asp Ala Leu Ala Ser Leu Glu Asn His Val Lys Thr
20 25 30

4632

Glu	Pro	Ala	Asp	Met	Asn	Glu	Ser	Cys	Lys	Gln	Ser	Gly	Xaa	Ser	Ser	
		35						40					45			
Leu	Val	Asn	Gly	Xaa	Ser	Pro	Ile	Arg	Ser	Leu	Met	His	Arg	Ser	Ala	
	50					55					60					
Arg	Ile	Gly	Gly	Xaa	Gly	Asn	Asn	Lys	Asp	Asp	Asp	Pro	Asn	Glu	Asp	
65					70					75					80	
Trp	Cys	Ala	Val	Cys	Gln	Asn	Gly	Gly	Asp	Leu	Leu	Cys	Cys	Glu	Lys	
				85					90					95		
Cys	Pro	Lys	Val	Phe	His	Leu	Thr	Cys	His	Val	Pro	Thr	Leu	Leu	Ser	
			100					105					110			
Phe	Pro	Ser	Gly	Asp	Trp	Ile	Cys	Thr	Phe	Cys	Arg	Asp	Ile	Gly	Lys	
		115					120					125				
Pro	Glu	Val	Glu	Tyr	Asp	Cys	Asp	Asn	Leu	Gln	His	Ser	Lys	Lys	Gly	
	130					135					140					
Lys	Thr	Ala	Gln	Gly	Leu	Ser	Pro	Val	Asp	Gln	Arg	Lys	Cys	Glu	Arg	
145					150					155					160	
Leu	Leu	Leu	Tyr	Leu	Tyr	Cys	His	Glu	Leu	Ser	Ile	Glu	Phe	Gln	Glu	
				165					170					175		
Pro	Val	Pro	Ala	Ser	Ile	Pro	Asn	Tyr	Tyr	Lys	Ile	Ile	Lys	Lys	Pro	
			180					185					190			
Met	Asp	Leu	Ser	Thr	Val	Lys	Lys	Lys	Leu	Gln	Lys	Lys	His	Ser	Gln	
		195					200					205				
His	Tyr	Gln	Ile	Pro	Asp	Asp	Phe	Val	Ala	Asp	Val	Arg	Leu	Ile	Phe	
	210					215					220					
Lys	Asn	Cys	Glu	Arg	Phe	Asn	Glu	Met	Met	Lys	Val	Val	Gln	Val	Tyr	
225					230					235					240	
Ala	Asp	Thr	Gln	Glu	Ile	Asn	Leu	Lys	Ala	Asp	Ser	Glu	Val	Ala	Gln	
				245					250					255		
Ala	Gly	Lys	Ala	Val	Ala	Leu	Tyr	Phe	Glu	Asp	Lys	Leu	Thr	Glu	Ile	
			260					265					270			
Tyr	Ser	Asp	Arg	Thr	Phe	Ala	Pro	Leu	Pro	Glu	Phe	Glu	Gln	Glu	Glu	
		275					280					285				
Asp	Asp	Gly	Glu	Val	Thr	Glu	Asp	Ser	Asp	Glu	Asp	Phe	Ile	Gln	Pro	
	290					295					300					

4633

Arg Arg Lys Arg Leu Lys Ser Asp Glu Arg Pro Val His Ile Lys
 305 310 315

<210> 5164

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5164

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Xaa Gly Arg Ser Arg Thr
 1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Thr Ser Gly Xaa
 20 25 30

Gly Asn Arg Ala Ala Asn Glu Glu Glu Thr Xaa Asn Lys Pro Lys Leu
 35 40 45

Asn Ile Gln Ile Lys Thr Leu Ala Asp Asp Val Arg Asp Arg Ile Thr
 50 55 60

Ser Phe Arg Lys Ser Thr Val Lys Lys Glu Lys Pro Leu Ile Gln His
 65 70 75 80

Pro Ile Asp Ser Gln Val Ala Met Ser Glu Phe Pro Ala Ala Gln Pro
 85 90 95

Leu Tyr Asp Glu Arg Ser Leu Asn Leu Ser Glu Lys Glu Val Leu Asp
 100 105 110

Leu Phe Glu Lys Met Met Glu Asp Met Asn Leu Asn Glu Glu Lys Lys
 115 120 125

4634

Ala Pro Leu Arg Asn Lys Asp Phe Thr Thr Lys Arg Glu Met Val Val
 130 135 140

Gln Tyr Ile Ser Ala Thr Ala Lys Ser Ile Val Gly Ser Lys Val Thr
 145 150 155 160

Gly Gly Leu Lys Asn Ser Lys His Glu Cys Thr Leu Ser Ser Gln Glu
 165 170 175

Tyr Val His Glu Leu Arg Ser Gly Ile Phe Arg
 180 185

<210> 5165

<211> 266

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5165

Thr His Thr Gly Glu Lys Ser Tyr Val Cys Ser Val Cys Gly Arg Gly
 1 5 10 15

Phe Ser Leu Lys Ala Asn Leu Leu Arg His Gln Arg Thr His Ser Gly
 20 25 30

Glu Lys Pro Phe Leu Cys Lys Val Cys Gly Arg Gly Tyr Thr Ser Lys
 35 40 45

Ser Tyr Leu Thr Val His Glu Arg Thr His Thr Gly Glu Lys Pro Tyr
 50 55 60

Glu Cys Gln Glu Cys Gly Arg Arg Phe Asn Asp Lys Ser Ser Tyr Asn
 65 70 75 80

Lys His Leu Lys Ala His Ser Gly Glu Lys Pro Phe Val Cys Lys Glu
 85 90 95

Cys Gly Arg Gly Tyr Thr Asn Lys Ser Tyr Phe Val Val His Lys Arg
 100 105 110

4635

Ile His Ser Gly Glu Lys Pro Tyr Arg Cys Gln Glu Cys Gly Arg Gly
 115 120 125

Phe Ser Asn Lys Ser His Leu Ile Thr His Gln Arg Thr His Ser Gly
 130 135 140

Glu Lys Pro Phe Ala Cys Arg Gln Cys Lys Gln Ser Phe Ser Val Lys
 145 150 155 160

Gly Ser Leu Leu Arg His Gln Arg Thr His Ser Gly Glu Lys Pro Phe
 165 170 175

Val Cys Lys Asp Cys Glu Arg Ser Phe Ser Gln Lys Ser Thr Leu Val
 180 185 190

Tyr His Gln Arg Thr His Ser Gly Glu Lys Pro Phe Val Cys Arg Xaa
 195 200 205

Met Trp Ala Arg Ile Tyr Ser Glu Val Asn Pro Trp Glu Thr Xaa Asp
 210 215 220

His Thr Leu Arg Gly Glu Ala Phe Cys Val Gln Gly Cys Gly Gln Ala
 225 230 235 240

Leu Ser Lys Ser Gln Leu His Phe His Gln Arg Thr His Ser Glu Glu
 245 250 255

Lys Pro Tyr Gly Cys Arg Glu Cys Gly Arg
 260 265

<210> 5166

<211> 128

<212> PRT

<213> Homo sapiens

<400> 5166

Leu Phe Met Ser Leu Leu Glu Asp Thr Leu Ser Lys Gln Lys Asn Pro
 1 5 10 15

Asp Val Arg Asn Ile Val Gln Gln Gln Phe Cys Gly Glu Tyr Ala Tyr
 20 25 30

Val Thr Val Cys Asn Gln Cys Gly Arg Glu Ser Lys Leu Leu Ser Lys
 35 40 45

Phe Tyr Glu Leu Glu Leu Asn Ile Gln Gly His Lys Gln Leu Thr Asp
 50 55 60

Cys Ile Ser Glu Phe Leu Lys Glu Glu Lys Leu Glu Gly Asp Asn Arg

4636

65		70		75		80									
Tyr	Phe	Cys	Glu	Asn	Cys	Gln	Ser	Lys	Gln	Asn	Ala	Thr	Arg	Lys	Ile
			85					90						95	
Arg	Leu	Leu	Ser	Leu	Pro	Cys	Thr	Leu	Asn	Leu	Gln	Leu	Met	Arg	Phe
			100					105						110	
Val	Phe	Asp	Arg	Gln	Thr	Gly	His	Lys	Lys	Lys	Leu	Asn	Thr	Tyr	Ile
		115					120					125			

<210> 5167

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5167

Ala	Gly	Gly	Gln	Arg	Gly	Gly	Ala	Glu	Ser	Glu	Arg	Gln	His	Leu	Gln
1				5					10					15	

Gln	Arg	Val	Leu	Gly	Glu	Leu	Cys	Ser	Arg	Asn	Thr	Gly	Gly	Asp	Ala
			20					25						30	

Ala	Gly	Ala	Gln	Arg	Glu	Asn	Ala	Thr	Arg	Arg	Thr	Ala	Gly	Thr	Leu
			35					40					45		

Ser	Leu	Glu	Ala	Ser	Gln	Ala	Leu	Lys	Glu	Lys	Ala	Glu	Leu	Gln	Ala
			50				55				60				

Gln	Leu	Ala	Ala	Leu	Ser	Thr	Lys	Leu	Gln	Ala	Gln	Val	Glu	Cys	Ser
65						70				75					80

4637

His Ser Ser Gln Gln Arg Gln Asp Ser Leu Ser Ser Glu Val Asp Thr
 85 90 95
 Leu Lys Gln Ser Cys Trp Asp Xaa Glu Arg Ala Met Xaa Asp Leu Ala
 100 105 110
 Glu His Ala Gly Xaa Lys Lys Cys Gln Leu Ala Ser Phe Gln Gln Arg
 115 120 125

<210> 5168

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5168

Asn Leu Thr Asn Val Met Tyr Val Thr Asn Pro Ser Gly Met Val Pro
 1 5 10 15

Pro Leu Leu Tyr Ile Lys Gly Phe Ile Pro Glu Lys Asn His Met Asn
 20 25 30

Val Met Phe Ala Glu Lys Pro Ser Ala Ile Met His His Ser Leu Asn
 35 40 45

Ile Lys Glu Tyr Ile Leu Glu Lys Ser Leu Leu Ser Lys Glu Cys Gly
 50 55 60

Lys Ala Phe Arg Gln Asn Ile His Leu Ala Ser His Leu Arg Ile His
 65 70 75 80

4638

Thr Gly Glu Lys Pro Phe Glu Cys Xaa Glu Cys Gly Lys Ser Phe Ser
85 90 95

Ile Ser Ser Gln Leu Ala Thr His Gln Arg Ile His Thr Xaa Glu Lys
100 105 110

Pro Tyr Glu Cys Lys Val Cys Ser Lys Ala Phe Thr Gln Lys Val Xaa
115 120 125

Leu His Ser Ser Glu Asn Pro Thr Gly Glu Glu Thr Leu
130 135 140

<210> 5169

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5169

Met Arg Ser His Cys Pro Lys Leu Trp Pro Phe Leu Cys Tyr Lys His
1 5 10 15

Ala Phe Leu Ser Tyr Lys Val Asn Gln Thr Ile Cys Asn Thr Val Leu
20 25 30

Gly Cys Asn Leu Cys Phe Cys Ser Thr Val Lys Ile Glu Asn Tyr Val
35 40 45

Val Cys Thr Val Leu Ile Lys Ile Leu Asp Phe Tyr
50 55 60

<210> 5170

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5170

Gln Leu Thr Thr Val Arg Arg Leu Leu Ser Glu Lys Ala Thr His Val
1 5 10 15

Asn Thr Arg Asp Glu Asp Glu Xaa Thr Pro Leu His Arg Ala Ala Tyr
20 25 30

4639

Ser Gly His Leu Asp Ile Val Gln Glu Leu Ile Ala Gln Gly Ala Asp
 35 40 45
 Val His Ala Val Thr Val Asp Gly Trp Thr Pro Leu His Ser Ala Cys
 50 55 60
 Lys Trp Asn Asn Thr Arg Val Ala Ser Phe Leu Leu Gln His Asp Ala
 65 70 75 80
 Asp Ile Asn Ala Gln Thr Lys Gly Leu Leu Thr Pro Leu His Leu Ala
 85 90 95
 Ala Gly Asn Arg Asp Ser Lys Asp Thr Leu Glu Leu Leu Leu Met Asn
 100 105 110
 Arg Tyr Val Lys Pro Gly Leu Lys Asn Asn Leu Glu Glu Thr Ala Phe
 115 120 125
 Asp Ile Ala Arg Arg Thr Ser Ile Tyr His Tyr Leu Phe Glu Ile Val
 130 135 140
 Glu Gly Cys Thr Asn Ser Ser Pro Gln Ser
 145 150

<210> 5171

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

4640

<400> 5171

Thr Xaa Gly Leu Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro
 1 5 10 15

Gly Arg Pro Thr Arg Pro Xaa Lys Xaa Met Glu Lys Asp Pro Ser Arg
 20 25 30

Leu Leu Leu Trp Ala Ala Glu Lys Asn Arg Val Lys Lys Lys Ile Thr
 35 40 45

Glu Gly Ser Val Thr Val Gly Lys Ala Leu Gly Ser Ser Gln Lys Thr
 50 55 60

Cys Leu Tyr Cys Tyr Gly His His Thr Tyr Leu Leu Ile Val Arg Thr
 65 70 75 80

Lys

<210> 5172

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5172

Met Cys Thr Arg Ser Leu Thr Ala Leu Ser Glu Pro Arg Thr Pro Gly
 1 5 10 15

Pro Pro Gly Leu Thr Thr Thr Pro Ala Pro Pro Asp Lys Leu Gly Gly
 20 25 30

Lys Gln Arg Ala Ala Phe Lys Ser Gly Lys Arg Val Gly Lys Pro Ser
 35 40 45

Pro Lys Ala Ala
 50

<210> 5173

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

4642

Phe Leu Leu Lys Asn Phe Pro Gly Asp Asp His Ser Ala Trp Ser Leu
 65 70 75 80

Gly Trp Ser Leu Val
 85

<210> 5175

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5175

Ser Gln Val Met Gly Thr Glu Arg Phe Ile Val Leu Phe Leu Phe Leu
 1 5 10 15

Leu Tyr Gly Ser Ser Gln Ser Phe Asn Ser Met Ala Gln Val Thr Gln
 20 25 30

Ser Arg Val Leu Arg Ala Cys Gly Leu Trp Gln His His Pro Gln Thr
 35 40 45

Asp Thr Ala Glu Glu Pro Gly Ala Val Ser Cys Arg Cys Ala Trp Leu
 50 55 60

Gly Thr Glu Trp Lys Ala Leu Gly Arg Ile Phe Ile Glu Val
 65 70 75

<210> 5176

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4643

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5176

Leu Ser Thr Lys Ile Tyr Arg Ser Xaa Ser Ala Met Tyr Ser Arg Thr
 1 5 10 15

Cys Gln Arg Asn Ser Lys Val Phe Ala Thr Val Ser Ser Pro Ala Ala
 20 25 30

Ile Xaa Asp Asn Ser Pro Ala Xaa Xaa Asn Val Val Glu Thr Asn Pro
 35 40 45

Phe Lys His Leu Thr His Leu Ser Leu Lys Leu Leu Pro Gly Asn Asp
 50 55 60

Val Glu Ile Lys Lys Phe Leu Ala Gly Cys Leu Lys Cys Ser Lys Glu
 65 70 75 80

Glu Lys Leu Ser Leu Met Gln Ser Leu Asp Asp Ala Thr Lys Gln Leu
 85 90 95

Asp Phe Thr Arg Lys Thr Leu Ala Glu Lys Lys Gln Glu Leu Asp Lys
 100 105 110

Leu Arg Asn Glu Trp Ala Ser His Thr Ala Ala Leu Thr Asn Lys His
 115 120 125

Ser Gln Glu Leu
 130

<210> 5177

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5177

Pro Ala Gln Leu Leu Tyr Glu Leu Ala Lys Leu Ala Gln Val Asn Val
 1 5 10 15

Glu Phe Ser Ala Arg Gln Leu Leu Ile Arg Thr Gly Arg Asp Gly Ser

4644

				20					25					30					
Tyr	Thr	Thr	Thr	Gly	Asp	Asn	Ser	Arg	Leu	Cys	Arg	Lys	Phe	Gln	Asp				
			35				40					45							
Leu	Gly	Ser	Arg	Thr	Met	His	Asp	Thr	Gln	Ser	Xaa	Ile	Ala	Gly	Gly				
	50					55					60								
Arg	Ala	Thr	Val	Lys	Arg	Pro	Lys	Ser	Ile	Lys	Met	Cys							
65					70					75									

<210> 5178

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5178

Phe Gly Thr Ser Arg Arg Arg Xaa Ala Lys Xaa Thr Leu Tyr Cys Arg
1 5 10 15

Val Phe Leu Leu Asp Gly Thr Glu Val Ser Val Asp Leu Pro Lys His
20 25 30

Ala Lys Gly Gln Asp Leu Phe Asp Gln Ile Val Tyr His Leu Asp Leu
35 40 45

Val Glu Thr Asp Tyr Phe Gly Leu Gln Phe Leu Asp Ser Ala Gln Val
50 55 60

Ala His Trp Leu Asp His Ala Lys Pro Ile Lys Lys Gln Met Lys Ile
65 70 75 80

Gly Pro Ala Tyr Ala Leu His Phe Arg Val Lys Tyr Tyr Ser Ser Glu
85 90 95

Pro Asn Asn Leu Arg Glu Glu Phe Thr Arg Tyr Leu Phe Val Leu Gln
100 105 110

Leu Arg His Asp Ile Leu Ser Gly Lys Leu Lys Cys Pro Tyr Glu Thr

4645

115	120	125
Ala Val Glu Leu Ala Ala Leu Cys Leu Gln Ala Asp Phe Val		
130	135	140

<210> 5179

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5179

Arg Arg His Leu Glu Ile Lys Xaa Leu Ile Met Leu Gln Tyr Cys Ile
1 5 10 15

Tyr Phe Ser Leu Tyr Thr Val Phe Phe Phe Val Ser Pro Glu Thr Ser
20 25 30

Phe Pro Phe Arg Phe Phe Ser Cys Ser Ile Lys Leu Ile Tyr Ile Ser
35 40 45

Thr Tyr Ser Asn Gly Val Leu Val Phe Val Ser
50 55

<210> 5180

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

4646

<400> 5180

Leu Pro Leu Arg Asn Lys Ile Leu Met Leu Ser Phe Asp Leu Arg Val
1 5 10 15

Gly Gly Leu Gly Pro Lys Ala Asp Arg Leu Glu Glu Leu Val Glu Glu
20 25 30

Leu Glu Ala Ala Pro Cys Cys Pro Leu Leu Glu Val Gly Ser Val Leu
35 40 45

Asp Leu Leu Val Gln Leu Ala Gly Ser Gly Pro Pro Gln Val Leu Pro
50 55 60

Arg Lys Arg Asp Tyr Phe Leu Asn Asn Lys His Val Gly Arg Asn Val
65 70 75 80

Pro Tyr Ser Gly Tyr Asp Cys Asp Asp Leu Xaa Val Phe Glu Met Asp
85 90 95

Val Gln Ser Leu Ile Xaa Arg Xaa Glu
100 105

<210> 5181

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5181

4647

Val Lys Ile Asn Arg Lys Thr Ala Phe Gly Thr Thr Thr Leu Val Leu
 1 5 10 15
 Thr Asp Phe Ser Asn Lys Ser Ser Thr Leu Glu Arg Lys Thr Lys Gln
 20 25 30
 Asn Gln Ile Leu Asp Glu Glu Phe Gln Asn Ser Pro Pro Ala Ser Val
 35 40 45
 Cys Leu Asn Asp Ile Gln Xaa Pro Ser Lys Lys Thr Thr Asn Asp Ile
 50 55 60
 Thr Gln Leu Xaa Ser Ile Val Asn Ile Ser Pro Thr Ile Ser Ser Glu
 65 70 75 80
 Ser Lys Leu Phe Ser Pro Ala His Lys Lys Pro Lys Thr Ala His Tyr
 85 90 95
 Ser Ser Pro Glu Leu Lys Ser Cys Asn Pro Gly Tyr Ser Asn Ser Glu
 100 105 110
 Leu Gln Ile Asn Met Thr Asp Gly Pro Arg Thr Leu Asn Pro Asp Ser
 115 120 125
 Pro Arg Cys Ser Lys His Asn Arg Leu Cys Ile Leu Arg Val Val Arg
 130 135 140
 Lys Asp Gly Glu Asn Lys Gly Arg Ala Val Leu Cys Leu Ser Ser Tyr
 145 150 155 160
 Leu Gly Gly Arg His Asn Val Gly Phe Phe Trp Asn Gly Ala Asp Phe
 165 170 175
 Val Pro Phe Pro Phe Trp Gln Pro Gly Ala Arg Arg Phe Pro Pro Trp
 180 185 190
 Lys Thr Val Xaa Gly Arg Phe Gly Thr Leu Thr Leu Gly Lys Gly Phe
 195 200 205
 Phe Phe Cys Cys Gly Xaa Leu Trp Gly
 210 215

<210> 5182

<211> 150

<212> PRT

<213> Homo sapiens

<400> 5182

Asn Ile Pro Gly Ser Gly His His Ala Phe Cys Lys Pro Pro Trp Gly

4648

1 5 10 15
 Ala Ala Glu Leu Asp Met Gly Arg Arg Asp Ala Gln Leu Leu Ala Ala
 20 25 30
 Leu Leu Val Leu Gly Leu Cys Ala Leu Ala Gly Ser Glu Lys Pro Ser
 35 40 45
 Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg Thr Asn Cys Gly
 50 55 60
 Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn Gly Cys Cys Phe
 65 70 75 80
 Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His Pro Leu Pro Lys
 85 90 95
 Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp Arg Arg Asn Cys
 100 105 110
 Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser Arg Lys Cys Cys
 115 120 125
 Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe Phe Pro Lys Ser
 130 135 140
 Val Glu Asp Cys His Tyr
 145 150

<210> 5183

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5183

Asn Ser Met Thr Lys Gly Leu Ile Gln Gly Glu Lys Gly Tyr Met Lys
 1 5 10 15
 Thr His Ser Ser Leu Phe Tyr Ser Leu Pro Trp Leu Glu Ile Asn Arg
 20 25 30
 His Ile Val Leu Phe Ile Met Gly Arg Lys Val Gly Lys Asp His Leu
 35 40 45
 Ser Ala Tyr Gly Val Leu Ala Leu Ala His Gly Glu
 50 55 60

4649

<210> 5184

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5184

Leu Ala Ile Asp Ser Thr Gly Leu Lys His Thr Ile Lys Cys Ile His
1 5 10 15

Asp Ile Val His Thr Gln Lys Pro Pro Leu Ile Ile Glu Ile Thr Cys
20 25 30

Ile Leu Phe Gly Asn His Leu Ser Leu Val Leu Lys Tyr Tyr Ile Phe
35 40 45

Cys Ala Ser Met Tyr Phe Ser Ile Tyr Lys Pro Met
50 55 60

<210> 5185

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5185

Leu Gln Phe Ile Lys Leu Ile Thr Arg Gln Asn Tyr Ile Phe Lys Met
1 5 10 15

Ser Lys Gly Leu Asn His Glu Lys Asn Ser Ser Thr Leu Leu Pro Asn
20 25 30

Tyr Cys Phe Gln Asp Ser Gln Ser Met Leu Tyr Ile His Leu Tyr Phe
35 40 45

Ser Leu Tyr Ile
50

<210> 5186

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5186

4650

Tyr Cys Tyr Ser Arg Thr Val Leu Ile Val Cys Ile Leu Lys Arg Cys
 1 5 10 15
 Asp Ser Gly Leu Ile Phe Ile Ser Val Ile Leu Lys Gly Trp Val Trp
 20 25 30
 Phe Tyr Arg Val Phe Cys Ile Leu Val Gly Ile His Lys Tyr Gln Met
 35 40 45
 Cys Cys Ile Ile Lys Ile Thr Leu Thr Phe Xaa Lys Lys Lys Lys Lys
 50 55 60
 Lys Lys Lys Lys Lys
 65

<210> 5187

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5187

His Glu Leu Thr Arg Asn Gly Gly Gly Gly Gly Ala Ala Leu Gly Gly
 1 5 10 15

4651

Glu Glu Gly Ala Ala Thr Arg Pro Arg Ala Ala Pro Gly Pro Gly Leu
 20 25 30
 Arg Met Glu Pro Phe Arg Arg Arg Leu Tyr Ala Gly Pro Gln Arg Arg
 35 40 45
 Pro Thr Arg Ala Asp Pro Arg His Pro Arg Phe Lys Glu Pro Ser Pro
 50 55 60
 Gly Leu Gly Pro Trp Pro Leu Thr Arg Gln Gly Thr Ala Leu Gly Gly
 65 70 75 80
 Leu Val Cys Arg Gly Xaa Pro Ala Ala Xaa Xaa His Gly Tyr Leu Ala
 85 90 95
 Lys Lys Leu His Ser Pro Ser Asp Gln Phe Pro Pro Arg Ala Lys Asn
 100 105 110
 Pro Glu Leu Glu Xaa Asn Ser Leu Xaa Phe Leu
 115 120

<210> 5188

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5188

Lys Cys Tyr Ile Leu Leu Gly Tyr Arg Gly Ala Gly Glu Thr Ala Glu
 1 5 10 15
 Glu Arg Lys Asn Met Trp Lys Thr Pro Arg Ser Ser Lys Phe Tyr Pro
 20 25 30
 Glu Phe Tyr Leu Pro Cys Met Phe Cys Leu Arg His Phe Ser Cys Asp
 35 40 45
 Ile Arg Lys Ala Ile Ser Lys Gly Xaa Phe Phe Val Ala Lys Ile Tyr
 50 55 60
 Phe Thr Leu
 65

4652

<210> 5189

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5189

Pro	Leu	Pro	Asn	Ser	Pro	Ala	Tyr	Phe	Tyr	Ala	Thr	Phe	Pro	Phe	Thr
1				5					10					15	

Leu	Tyr	Ser	Leu	Ala	Ile	Phe	Asp	Ser	Ser	His	Phe	Leu	Thr	Pro	Val
			20					25					30		

Phe	Ser	Gln	Tyr	Asn	Val	His	Thr	Phe	Ile	Thr	Leu	Ile	Pro	Leu	Tyr
		35					40						45		

Cys	Ile	Leu	Trp	Phe	Ala	Phe	Pro	His
	50					55		

<210> 5190

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5190

Leu	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu
1				5					10					15	

Arg	Pro	Pro	Pro	Arg	Trp	Ser	Ser	Ser	Phe	Val	Pro	Leu	Val	Arg	Xaa
				20				25					30		

Gly	Val	Ala
		35

<210> 5191

<211> 19

<212> PRT

<213> Homo sapiens

<400> 5191

Leu	Ile	Lys	Leu	Thr	Ser	Lys	Gln	Met	Ile	Thr	Ile	His	Asn	Thr	Lys
1					5				10					15	

4653

Gly Arg Thr

<210> 5192

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5192

Ile	Phe	Leu	Glu	Gly	Phe	His	Glu	Ile	Ser	Pro	Ser	His	Ile	Ser	Ser
1				5				10					15		

Val	Gln	Tyr	Lys	Met	Gln	Lys	Cys	Leu	Leu	Xaa	Lys	Thr	Gly	Asp	Leu
			20					25					30		

Ile	Thr	Thr	Thr	Leu	Gly	Ile	Ser	Gln	Leu	Pro	Leu	Gly	Thr	Gln	Pro
			35				40					45			

Pro	Xaa	Val	Glu	Thr	Cys	Leu	Asp	Trp	His	Ser	Gly	Ser	Thr
	50					55					60		

<210> 5193

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4654

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (281)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5193

Leu	Pro	Gln	Arg	Cys	His	Gly	Val	Leu	Arg	Arg	Arg	Lys	Asp	Trp	Asn
1				5					10					15	

Val	Arg	Leu	Gln	Ala	Phe	Phe	Thr	Ser	Asp	Thr	Gly	Leu	Glu	Tyr	Glu
			20					25					30		

Ala	Pro	Lys	Leu	Tyr	Pro	Ala	Ile	Pro	Ala	Ala	Arg	Arg	Arg	Pro	Ile
		35					40					45			

Arg	Val	Leu	Ser	Leu	Phe	Asp	Gly	Ile	Ala	Thr	Gly	Tyr	Leu	Val	Leu
	50					55					60				

Lys	Glu	Leu	Gly	Ile	Lys	Val	Gly	Lys	Tyr	Val	Ala	Ser	Glu	Val	Cys
65					70					75					80

Glu	Glu	Ser	Ile	Ala	Val	Gly	Thr	Val	Lys	His	Glu	Gly	Asn	Ile	Lys
			85						90					95	

Tyr	Val	Asn	Asp	Val	Arg	Asn	Ile	Thr	Lys	Lys	Asn	Ile	Glu	Glu	Trp
			100					105					110		

Gly	Pro	Phe	Asp	Leu	Val	Ile	Gly	Gly	Ser	Pro	Cys	Asn	Asp	Leu	Ser
		115					120					125			

Asn	Val	Asn	Pro	Ala	Arg	Lys	Gly	Leu	Tyr	Glu	Gly	Thr	Gly	Arg	Leu
	130					135					140				

Phe	Phe	Glu	Phe	Tyr	His	Leu	Leu	Asn	Tyr	Ser	Arg	Pro	Lys	Glu	Gly
145					150					155					160

Asp	Asp	Arg	Pro	Phe	Phe	Trp	Met	Xaa	Glu	Asn	Val	Xaa	Xaa	Met	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4655

	165		170		175
Val Gly Asp Lys Arg Asp Ile Ser Arg Phe Leu Glu Cys Asn Pro Val					
	180		185		190
Met Ile Asp Ala Ile Lys Val Ser Ala Ala His Arg Ala Arg Tyr Phe					
	195		200		205
Trp Gly Asn Leu Pro Gly Met Asn Arg Pro Val Ile Ala Ser Lys Asn					
	210		215		220
Asp Lys Leu Xaa Leu Gln Asp Cys Leu Glu Tyr Asn Arg Ile Ala Lys					
	225		230		235
Leu Lys Lys Val Gln Thr Ile Thr Thr Lys Ser Asn Ser Ile Lys Gln					
	245		250		255
Gly Lys Asn Gln Leu Phe Pro Val Val Met Asn Gly Lys Glu Asp Val					
	260		265		270
Xaa Trp Cys Thr Glu Leu Glu Arg Xaa Phe Gly Phe Pro Val His Tyr					
	275		280		285
Thr Asp Val Ser Asn Met Gly Arg Gly Ala Arg Gln Lys Leu Leu Gly					
	290		295		300
Arg Ser Trp Ser Val Pro Val Ile Arg His Leu Phe Ala Pro Leu Lys					
	305		310		315
Asp Tyr Phe Ala Cys Glu					
	325				

<210> 5194

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5194

Gly His Leu Pro Ser Leu Ile Leu Ser Leu Gln Leu Leu Gly Gln Leu					
1	5		10		15
Ser Leu Pro Gln Arg Leu Phe Phe Cys Leu Ser Pro Phe Gly Ile Ser					
	20		25		30
His Leu Glu Gly Ile Cys Lys Gly His Ser Val Leu Glu Gln Gly Asn					
	35		40		45
Val Ala Ser Ser Ala Gln Thr Ser Leu Ser His Leu Gln Leu Arg Leu					
	50		55		60

4656

Gly Met Arg Gly Thr Asp Leu Ala Leu Thr Pro Gly Arg Phe
 65 70 75

<210> 5195

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5195

Xaa Xaa Pro Ser Leu Xaa Glu Gln Ser Trp Xaa Ser Thr Ala Val Ala
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Ala Glu Leu Asp Ile Phe Phe Lys Asn Lys Ile Arg Cys Gln Pro Ser
 35 40 45

Lys Met Phe Leu
 50

<210> 5196

<211> 37

<212> PRT

<213> Homo sapiens

4657

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5196

Val Ile Phe Leu Ala Ser Gly Asn Asp Gly Gly Ala Leu Thr Arg Val
 1 5 10 15

Tyr Cys Gly Met Leu Leu Leu Lys Xaa Arg Arg Glu Leu Ala Arg Arg
 20 25 30

Arg Gly Ser Arg Leu
 35

<210> 5197

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5197

Asp Ala Asp His Leu Leu Gln Asn Ser Tyr Leu Glu Gln Phe Lys Leu
 1 5 10 15

Leu Val Pro Val Asn Lys Asn Thr Asp Gln Asn Ala Leu His Val Ala
 20 25 30

Tyr Thr Val Gly Ser Leu His Ala Val Leu Asp Met Phe Ile Ser Thr
 35 40 45

Leu Asn Ala Met Lys Cys Phe Ile Asn Lys Lys Pro Leu Tyr Ile Lys
 50 55 60

Leu Leu
 65

<210> 5198

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5198

Cys Glu Ala Cys Thr Gly Lys Ala Pro Arg Ser Gly Gly Ile Pro Glu
 1 5 10 15

Glu Met Pro Glu Leu Lys Asp Cys Gly Trp Gly Lys Arg Ser Pro Ser
 20 25 30

4658

Lys Glu Ala Val Cys Gly
35

<210> 5199

<211> 102

<212> PRT

<213> Homo sapiens

<400> 5199

Asp Val Glu Ile Val Pro Val Leu Gly Asn Tyr Phe Pro Leu Pro Gly
1 5 10 15

Tyr Gly Lys Glu Asp Val Ile Val Asn Asn Ile His His Pro Val Phe
20 25 30

Asn Val Leu Gln Gln Cys Ser Asn Leu Phe Phe Ser Phe Val Pro Thr
35 40 45

Ala Phe Val Tyr Ile Glu Asn Leu Lys Ile Ser Pro Ser Leu Leu Glu
50 55 60

Val Lys Met Phe Pro Asn Leu Leu Asn Met Pro Leu Phe Thr Ile Cys
65 70 75 80

Phe Phe Arg Leu Phe Leu Met His Tyr Arg Ile Lys Tyr Asp Phe Val
85 90 95

Tyr Phe Tyr Tyr Ser Met
100

<210> 5200

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5200

Phe Leu His His Lys Leu Tyr Leu Asn Val Gly Ala Val Ser Gly Cys
1 5 10 15

Phe Leu Pro His Gly Glu Thr Trp Ser Ala Val Arg Glu Lys Asn Glu
20 25 30

Ala Met Met Lys Ala Lys Ser Arg Lys Ser Pro Asp Cys Val Pro Val
35 40 45

Pro Gly Ser Ser Gly Leu His Val Gln Val His Leu Cys Pro Phe His

4659

50 55 60
 Val Leu Ile Val Glu Phe Phe Cys Glu Ile Leu Gln Ile Ser
 65 70 75

<210> 5201
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5201
 Ala His Xaa Ser Ala Arg His Ser Cys Pro Gly Asn Val Ala Ala Arg
 1 5 10 15
 Asn Trp Trp Val Ser Asn Asn Ile Leu Trp
 20 25

<210> 5202
 <211> 303
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (257)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5202
 Val Asn Glu Ile Met Ile Leu Glu Gly Gly Gly Val Met Asn Leu Asn
 1 5 10 15
 Pro Gly Asn Asn Leu Leu His Gln Pro Pro Ala Trp Thr Asp Ser Tyr
 20 25 30
 Ser Thr Cys Asn Val Ser Ser Gly Phe Phe Gly Gly Gln Trp His Glu
 35 40 45
 Ile His Pro Gln Tyr Trp Thr Lys Tyr Gln Val Trp Glu Trp Leu Gln
 50 55 60
 His Leu Leu Asp Thr Asn Gln Leu Asp Ala Asn Cys Ile Pro Phe Gln
 65 70 75 80

4660

Glu Phe Asp Ile Asn Gly Glu His Leu Cys Ser Met Ser Leu Gln Glu
 85 90 95
 Phe Thr Arg Ala Ala Gly Thr Ala Gly Gln Leu Leu Tyr Ser Asn Leu
 100 105 110
 Gln His Leu Lys Trp Asn Gly Gln Cys Ser Ser Asp Leu Phe Gln Ser
 115 120 125
 Thr His Asn Val Ile Val Lys Thr Glu Gln Thr Glu Pro Ser Ile Met
 130 135 140
 Asn Thr Trp Lys Asp Glu Asn Tyr Leu Tyr Asp Thr Asn Tyr Gly Ser
 145 150 155 160
 Thr Val Asp Leu Leu Asp Ser Lys Thr Phe Cys Arg Ala Gln Ile Ser
 165 170 175
 Met Thr Thr Thr Ser His Leu Pro Val Glu Ser Pro Asp Met Lys Lys
 180 185 190
 Glu Gln Asp Pro Pro Ala Lys Cys His Thr Lys Lys His Asn Pro Arg
 195 200 205
 Gly Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Leu Asn Pro Asp
 210 215 220
 Lys Asn Pro Gly Leu Ile Lys Trp Glu Asp Arg Ser Glu Gly Val Phe
 225 230 235 240
 Arg Phe Leu Lys Ser Glu Ala Val Ala Gln Leu Trp Gly Lys Lys Lys
 245 250 255
 Xaa Asn Ser Ser Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr
 260 265 270
 Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val
 275 280 285
 Tyr Lys Phe Gly Lys Asn Ala Arg Gly Trp Arg Glu Asn Glu Asn
 290 295 300

<210> 5203

<211> 113

<212> PRT

<213> Homo sapiens

<220>

4661

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5203

Arg	Thr	Ser	Ile	Leu	Leu	Lys	Arg	Ala	Cys	Arg	Xaa	Xaa	Ser	Leu	Pro
1				5				10						15	

Pro	Thr	Leu	Ser	His	Leu	Arg	Leu	His	Leu	Gln	Leu	Ala	Pro	Arg	Ser
			20					25						30	

Cys	Gly	Asp	Gly	Ser	Pro	Trp	Gln	Pro	Pro	Ala	Asp	Leu	Ser	Gly	Leu
		35					40					45			

Xaa	Ile	Glu	Glu	Val	Ser	Lys	Ser	Leu	Arg	Phe	Ile	Gly	Leu	Ser	Glu
	50					55					60				

Asp	Val	Ile	Ser	Phe	Phe	Val	Thr	Glu	Lys	Ile	Asp	Gly	Asn	Leu	Leu
65					70					75					80

Val	Gln	Leu	Thr	Glu	Glu	Ile	Leu	Ser	Glu	Asp	Phe	Lys	Leu	Ser	Lys
				85					90					95	

Leu	Gln	Val	Lys	Lys	Ile	Met	Gln	Phe	Ile	Asn	Gly	Trp	Arg	Pro	Lys
		100					105						110		

Ile

<210> 5204

<211> 46

<212> PRT

<213> Homo sapiens

<400> 5204

Lys	Ser	Pro	Thr	Met	Phe	Leu	Asn	Ser	Lys	Cys	Lys	Leu	Ser	Ala	Arg
1				5					10					15	

Val	Asp	Ile	His	Thr	Ala	Cys	Phe	His	Met	Trp	His	Phe	Tyr	Val	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4662

	20		25		30
Cys	Trp	Val	Ile	Val	Leu
			Asp	Trp	Thr
				Val	Lys
				Tyr	Tyr
				Val	
	35		40		45

<210> 5205

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5205

Ala	Pro	Thr	Met	Ala	Glu	Thr	Lys	Leu	Gln	Leu	Phe	Val	Lys	Ala	Ser
1				5				10						15	

Glu	Asp	Gly	Glu	Ser	Val	Gly	His	Cys	Pro	Ser	Tyr	Leu	Asp	Ser	Ala
			20					25					30		

Met	Gln	Glu	Lys	Glu	Phe	Lys	Tyr	Thr	Cys	Pro	His	Ser	Ala	Glu	Ile
			35				40						45		

Leu	Ala	Ala	Tyr	Arg	Pro	Xaa	Val	His	Pro	Arg
			50				55			

<210> 5206

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5206

Pro	Gln	Leu	Ala	Glu	Lys	Ala	Ile	Leu	Lys	Thr	Phe	Pro	Thr	Ala	Tyr
1				5				10						15	

Leu	Cys	Glu	Val	Asn	Leu	Leu	Gln	Gln	Lys	Ser	Leu	Asp	Val	Glu	Ala
			20					25					30		

Ala	Val	Arg	Ile	Gln	Leu	Phe	Ile	Ile	Thr	Arg	Tyr
			35				40				

<210> 5207

<211> 49

4663

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5207

Asp	Ser	Lys	Leu	Glu	Gly	Phe	Glu	Glu	Lys	Glu	Val	Glu	Val	Phe	Cys
1				5					10					15	

Lys	Arg	Thr	Leu	Ile	Leu	Leu	Leu	Glu	Ala	Val	Xaa	Arg	Ala	Leu	Arg
			20					25						30	

Val	Glu	Asn	Xaa	Ser	Ala	Leu	Lys	Gly	Arg	His	Glu	Lys	Gln	Gln	His
		35					40					45			

Gln

<210> 5208

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5208

Lys	Gln	Lys	Arg	Val	Pro	Val	Lys	Trp	Ile	Lys	Gln	Thr	Gly	Lys	Asp
1				5					10					15	

Glu	Ala	Cys	Xaa	Ala	Gly	Gly	Ala	Glu	Ser	Gln	Pro	Ala	Ser	Ser	Val
			20					25					30		

Val	Ile	Leu	Leu	Asn	Leu	Tyr	Gln	Ser	Phe	Gln	Asn	Arg	Gly	Gly	Met
		35					40					45			

Asp	Leu	Pro	Leu	Cys	Asp	Ala	Arg	Ser	Gln	Arg	Trp	Asp	Ser	Val	Ile
	50					55					60				

4664

Gly Leu Cys
65

<210> 5209

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5209

Arg Glu Lys His Arg Trp Val Ser Pro Arg His Ser Ser Leu Gln Arg
1 5 10 15

Cys Leu His Arg Ala Asn Pro Ala Phe Leu Lys Gly Ala Phe Pro His
20 25 30

Leu Met Cys Leu Ser Ala Ser Phe Phe Arg Gln Glu Phe Lys Ser Ile
35 40 45

Phe Lys Ile Asp Arg Phe Trp Cys Ser Phe Ala Ser Phe Arg Gly Arg
50 55 60

Leu Ser Pro Ala Ser Gly Ile His Pro His Val Gly Thr Arg Ser Ala
65 70 75 80

Ala Gly Ser His Val Tyr Glu Met Leu Val Val Phe Phe Phe Phe Ser
85 90 95

Phe Ile Leu Glu Val Phe Leu
100

<210> 5210

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5210

Gly Arg Val Tyr Cys Leu Phe Lys Trp His Asn Phe Lys Gly Leu Arg
1 5 10 15

Val Gln Ser Leu Asn Leu Pro Arg Glu Gly Ala Pro Lys Leu Ser Ser
20 25 30

Pro His Thr Ser Gly Phe Leu Cys Gly Gly Gly Ala Gly Ile Ser Lys
35 40 45

Leu Trp Cys Glu Arg Val Gly Glu Met Leu Glu Val Gly Val Leu Cys
50 55 60

4665

Ser Arg Pro Pro Ile Leu Ser Gln Cys Pro Leu Pro Pro Ser Ser Pro
 65 70 75 80

Thr Pro Cys Pro Gln Phe Cys Gly Ala Ser Arg Leu
 85 90

<210> 5211

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5211

Gly Ala Val Gly Leu Gly Gly Gln Glu Leu Gln Tyr Gly His Gly Leu
 1 5 10 15

Ser Arg Leu Ser Thr Ser Ala Phe Arg Ala Tyr Gly Gln Gly Thr Leu
 20 25 30

Tyr Asp Ser Pro Leu Leu Gln Val Ser Ile His Leu Gly Tyr Gly Ile
 35 40 45

Tyr Arg Pro Val Ser Leu Gly Ser His Ala Leu Phe Pro Phe Leu Ser
 50 55 60

Trp Leu Asp Gln Pro Leu Trp Asp Gln His Pro Xaa His Thr Pro Pro
 65 70 75 80

Asp Cys Ser Ser Ile Thr Arg Ile Ala Leu Tyr Phe Val Gln Lys Gly
 85 90 95

Leu Ala Val Pro Cys Cys Phe His Leu Cys Lys Pro Ile Val Pro Leu
 100 105 110

4666

Ala Ala Val Cys Val Arg Val His Val Cys Val Phe His Leu Xaa Ile
 115 120 125

His Cys Thr Arg Tyr Leu Xaa Ser Ala His Tyr Val Pro Gly Thr Val
 130 135 140

Ala Glu Phe Leu Trp Val Cys Leu Ser Met Pro Leu Leu Leu Leu Trp
 145 150 155 160

Gly Pro Leu Ser Val Leu Leu Phe Val Pro Lys Leu Leu Pro Leu Cys
 165 170 175

Gln Ser Gly Cys Leu Arg Phe Cys Val Ser Leu Cys Ala Phe Leu Ser
 180 185 190

Leu Ser Val Leu Val Ser Leu Gln Gly Pro Leu Phe Leu Ser Phe Leu
 195 200 205

Val Ser Val Leu Cys Pro Leu Cys Pro Leu Asp Ser Leu Gly Leu Cys
 210 215 220

Arg Pro Leu Val Cys Pro Gly Ser Ser Ala Phe Leu Thr Ser Ser Cys
 225 230 235 240

Pro Pro Leu His Ser Leu Leu Leu Cys Ser Arg Phe Pro Arg Ser His
 245 250 255

Phe

<210> 5212

<211> 73

<212> PRT

<213> Homo sapiens

<400> 5212

Ile Thr Cys Ser Asp Leu Ile Thr Phe Asp Lys Phe Glu Lys Phe Val
 1 5 10 15

Phe Gln Thr Glu Pro Val Ser Ile Asn Glu Glu Asn Glu Gly Phe Glu
 20 25 30

His Asn Thr Gln Val Arg Asn Gln Gly Ile Ile Ala Leu Ser Tyr Arg
 35 40 45

Asp Trp Glu Val Lys Leu Cys Leu Leu Pro Leu His Ser Ser Asp Ser
 50 55 60

Ala Phe Thr Cys Ser Lys Pro Ser Ala

4667

65

70

<210> 5213

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5213

Arg Leu Met Thr Ala Phe Leu Arg Ile Ala Asn Arg Gly Gln Arg Gly
1 5 10 15

Gly Ser Gln His Phe Gly Arg Pro Arg Arg Val Asp His Glu Val Arg
20 25 30

Ser Ser Arg Thr Ala Trp Pro Arg Trp
35 40

<210> 5214

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5214

Met Leu Ile Asp Asp Glu Asn Leu Val Gly Cys Arg Ala Gln Phe Arg
1 5 10 15

Arg Ser Glu Leu Gly Val Gly Asp Arg Phe Gly Gly Gly Ile Ser Gln
20 25 30

Leu Phe Pro Pro Leu Asn Ser Glu Glu Cys Ser Tyr Ala Arg Ser Gln
35 40 45

Arg Arg Ala Thr Arg Ser Phe Cys Phe Gly Asp Asn Trp Ser Val Glu
50 55 60

Ser Pro Arg Ser Ser Phe Val Ala Phe Cys Ile Leu Leu Pro Gly
65 70 75

<210> 5215

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4668

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5215

Gln	Ser	Xaa	Tyr	Xaa	Asn	Ser	Gly	Gln	Xaa	Asp	Ala	Ala	Arg	Gly	Thr
1				5				10						15	

Arg	Val	Gly	Arg	Val	Arg	Leu	Trp	Lys	Arg	Ala	Ala	Ala	Ala	His	Asn
			20					25						30	

Met	His	Ser	Leu	Ala	Thr	Ala	Ala	Pro	Val	Pro	Thr	Thr	Leu	Ala	Gln
		35						40				45			

Val	Asp	Arg	Glu	Lys	Ile	Tyr	Gln	Trp	Ile	Asn	Glu	Leu	Ser	Ser	Pro
	50					55					60				

Glu	Thr	Arg	Glu	Asn	Ala	Leu	Leu	Glu	Leu	Ser	Lys	Lys	Arg	Glu	Ser
65					70					75					80

Val	Pro	Asp	Leu	Ala	Pro	Met	Leu	Trp	His	Ser	Phe	Gly	Thr	Ile	Ala
				85					90					95	

Ala	Leu	Leu	Gln	Glu	Ile	Val	Asn	Ile	Tyr	Pro	Ser	Ile	Asn	Pro	Pro
			100					105					110		

Thr	Leu	Thr	Ala	His	Gln	Ser	Asn	Arg	Val	Cys	Asn	Ala	Leu	Ala	Leu
		115					120					125			

Leu	Gln	Cys	Val	Ala	Ser	His	Pro	Glu	Thr	Arg	Ser	Ala	Phe	Leu	Ala
	130					135					140				

Ala	His	Ile	Pro	Leu	Phe	Leu	Tyr	Pro	Phe	Leu	His	Thr	Val	Ser	Lys
145					150					155					160

Thr	Arg	Pro	Phe	Glu	Tyr	Leu	Arg	Leu	Thr	Ser	Leu	Gly	Val	Ile	Gly
				165					170					175	

Ala	Leu	Val	Lys	Thr	Asp	Glu	Gln	Glu	Val	Ile	Asn	Phe	Leu	Leu	Thr
			180					185					190		

Thr	Glu	Ile	Ile	Pro	Leu	Cys	Leu	Arg	Ile	Met	Glu	Ser	Gly	Ser	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4669

195 200 205
 Leu Ser Lys Thr Val Ala Thr Phe Ile Leu Gln Lys Ile Leu Leu Asp
 210 215 220
 Asp Thr Gly Leu Ala Tyr Ile Cys Gln Thr Tyr Glu Arg Phe Ser His
 225 230 235 240
 Val Ala Met Ile Leu Gly Lys Met Val Leu Gln Leu Ser Lys Glu Pro
 245 250 255
 Ser Ala Arg Leu Leu Lys His Val Val Arg Cys Tyr Leu Arg Leu Ser
 260 265 270
 Asp Asn Pro Arg Phe Ser Asp Leu Thr Phe Cys Trp Ser Ser Phe Gln
 275 280 285
 Arg Lys
 290

<210> 5216
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 5216
 Ala Arg Phe Ala Arg Ser Ala His Glu Gly Lys Met Pro Lys Lys Lys
 1 5 10 15
 Thr Gly Ala Arg Lys Lys Ala Glu Asn Arg Arg Glu Arg Glu Lys Gln
 20 25 30
 Leu Arg Ala Ser Arg Ser Thr Ile Asp Leu Ala Lys His Pro Cys Asn
 35 40 45
 Ala Ser Met Val Ser Ala Phe Phe Asp Ile Ser Trp
 50 55 60

<210> 5217
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 5217
 Glu Ser Ile Gln His Asn Asn Val Leu Lys Pro Ile Asn Leu Leu Ser
 1 5 10 15

4670

Gln Gln Met Lys Pro Gly Met Lys Arg Gln Arg Ser Leu Tyr Arg Glu
 20 25 30

Ile Leu Phe Leu Ser Leu Val Ser Leu Gly Arg Glu Asn Ile Asp Ile
 35 40 45

Glu Ala Phe Asp Asn Glu Tyr Gly Ile Ala Tyr Asn Ser Leu Ser Ser
 50 55 60

Glu Ile Leu Glu Arg Leu Gln Lys Ile Asp Ala Pro Pro Ser Ala Ser
 65 70 75 80

Val Glu Trp Cys Arg Lys Cys Phe Gly Ala Pro Leu Ile
 85 90

<210> 5218

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5218

Asn Thr Lys Thr Asn Lys Gln Xaa Lys Asn Gln Asn Ala Leu Tyr Arg
 1 5 10 15

Ile Ala Cys Glu Val Phe Ser Thr Glu Ser Ile Phe Pro Phe Val Ser
 20 25 30

Asp Phe Lys Leu Thr Tyr Glu Gly Arg Glu Met Ile Thr Phe Pro Val
 35 40 45

Lys Ser Ile Asp Asn Leu Ile Asn Leu Val Thr Pro Pro Ser Val Leu
 50 55 60

Asn Ile Thr Lys Phe Val Val Ile Arg Leu Ser Ala Pro Val Phe Ile
 65 70 75 80

Val Glu Leu Pro Leu Ser Leu Glu Thr Phe Leu Leu Lys Asn Asp Gly
 85 90 95

4671

Ser Ile Val Phe Xaa Tyr Val Pro Met Lys Val Gly
 100 105

<210> 5219

<211> 139

<212> PRT

<213> Homo sapiens

<400> 5219

Arg Thr Ser Pro Arg Phe Gln Phe Gln Gly Leu Thr Phe Leu Arg Arg
 1 5 10 15

Arg Trp Asn Val Lys Gly Gly Arg Lys Glu Ile Lys Arg Pro Gln Val
 20 25 30

Lys Met Trp Lys Val Thr Ser Ser Leu Arg Pro Arg Gly Thr Arg Arg
 35 40 45

Glu Ser Pro Arg Gly Pro Arg Pro Ser Glu Arg Val Ala Lys Lys Lys
 50 55 60

Ser Ala Pro Ala Glu Glu Gln Leu Arg Gly Pro Cys Trp Asp Gln Ser
 65 70 75 80

Ser Lys Ala Ser Ala Gln Asp Ala Gly Asp His Val Gln Pro Pro Glu
 85 90 95

Gly Arg Asp Phe Thr Leu Lys Pro Lys Lys Arg Arg Gly Lys Lys Lys
 100 105 110

Leu Gln Lys Pro Val Glu Ile Ala Glu Asp Ala Thr Leu Glu Glu Thr
 115 120 125

Leu Val Lys Lys Lys Lys Lys Lys Asp Ser Lys
 130 135

<210> 5220

<211> 125

<212> PRT

<213> Homo sapiens

<400> 5220

Ser Arg Gln Asn Glu Lys Gly Gly Gly His Cys Ser Pro Leu Asn Ser
 1 5 10 15

Phe Phe Arg Ser Ser Ser Met Ser Leu Ser Ala Leu Ala Cys Asp Phe
 20 25 30

4672

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Thr Pro Ile Gln Pro Trp Glu Trp Glu Glu Tyr Glu Gln Ile Thr Leu
      35              40              45

Gly Leu Thr Ala Pro Ser Asn Leu Leu Glu Ser Asn Tyr Leu Gly Gln
      50              55              60

Ala Ser Glu Cys Phe Val Arg Lys Leu Val Arg Arg Phe Pro Gln Leu
      65              70              75              80

Leu Pro Gly Pro Pro Gly His Cys Arg Lys Asp Leu Gly Asp Pro Gln
              85              90              95

Gln Arg Pro Ile Ala Leu Leu Pro Ser Leu Pro His Gln Glu Arg Asn
      100              105              110

Asn Val His Arg Leu Glu Ala Asp Ser Glu Val Asp Leu
      115              120              125

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<210> 5221

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5221

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Asn Tyr Leu Pro Ser Leu Ser Tyr Ala Ser Xaa Ile Gly Met Leu Leu
  1              5              10              15

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Val Ser Met His Thr Thr Thr Phe His Gly Phe Tyr Cys Ala Gln Thr

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4673

	20		25		30										
Leu	His	Ala	Phe	Arg	Met	Ile	Tyr	Leu	Arg	Arg	Tyr	Ile	Ile	Cys	His
	35					40					45				
Pro	Asp	Pro	Lys	Arg	Xaa	Arg	Xaa	Xaa	Asp	His	Ser	Glu	Pro	Leu	Ile
	50				55					60					
Arg	Lys	Leu	Leu	Ala	Ser	Val	Phe	Asp	Thr	Ser	Leu	Thr	Leu	Tyr	Ile
65				70				75						80	
His	Val	Ile	Ile	Ser	Cys	Gln	Ile	Leu	Asp	Ser	Ile	Asn	Cys	Pro	Leu
			85				90						95		

Thr Ala Tyr

<210> 5222

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4674

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5222

Lys	Tyr	Leu	Val	Glu	Ile	Pro	Glu	Phe	Tyr	Glu	Val	Xaa	Asp	Lys	Lys
1				5				10						15	

Xaa	Ala	Gln	Gly	Leu	Leu	Lys	Ser	Thr	Cys	Ile	Ile	Ser	Pro	Phe	Gln
		20						25					30		

Lys	Thr	Xaa	Thr	Xaa	Val	Xaa	Gly	Lys	Ile	Pro	Val	Xaa	Xaa	Ile	Cys
		35					40					45			

Tyr	Xaa	Phe	Leu	Leu	Pro	His	Leu	Ala	Asn	Asn	Phe
	50					55					60

<210> 5223

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

4675

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5223

Leu	Thr	Xaa	Xaa	Asn	Lys	Ser	Trp	Xaa	Ser	Thr	Ala	Val	Ala	Ala	Ala
1				5				10					15		

Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Ala
			20				25					30			

Ala	Ser	Met	Lys	Arg	Lys	Ser	Glu	Arg	Arg	Ser	Ser	Trp	Ala	Ala	Ala
		35					40					45			

Pro	Pro	Cys	Ser	Arg	Arg	Cys	Ser	Ser	Thr	Ser	Pro	Gly	Val	Lys	Lys
	50					55					60				

Ile	Arg	Ser	Ser	Thr	Gln	Gln	Asp	Pro	Arg	Arg	Arg	Asp	Pro	Gln	Asp
65					70					75				80	

Asp	Val	Tyr	Leu	Asp	Ile	Thr	Asp	Arg	Leu	Cys	Phe	Ala	Ile	Leu	Tyr
				85					90					95	

Ser	Arg	Pro	Lys	Ser	Ala	Ser	Asn	Val	His	Tyr	Phe	Ser	Ile	Asp	Asn
			100					105					110		

Glu	Leu	Glu	Tyr	Glu	Asn	Phe	Tyr	Ala	Asp	Phe	Gly	Pro	Leu	Asn	Leu
		115						120				125			

Ala	Met	Val	Tyr	Arg	Tyr	Cys	Cys	Lys	Ile	Asn	Lys	Lys	Leu	Lys	Ser
		130						135				140			

Ile	Thr	Met	Leu	Arg	Lys	Lys	Ile	Val	His	Phe	Thr	Gly	Ser	Asp	Gln
145					150					155					160

Arg	Lys	Gln	Ala	Asn	Ala	Ala	Phe	Leu	Val	Gly	Cys	Tyr	Met	Val	Ile
				165					170					175	

4676

Tyr Leu Gly Arg Thr Pro Glu Glu Ala Tyr Arg Ile Leu Ile Phe Gly
 180 185 190

Glu Thr Ser Tyr Ile Pro Phe Arg Asp Ala Ala Tyr Gly Xaa Cys Xaa
 195 200 205

Xaa Thr Xaa Pro
 210

<210> 5224

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5224

Lys Gln Arg Gly Asn Leu Lys Ala Thr Leu Thr His Leu Gln Ser Ser
 1 5 10 15

Gln Ile Leu Thr Phe Thr Arg Leu Ala Phe Cys Phe Trp Ala Ser Pro
 20 25 30

Lys Gln Thr Ala Ser His Pro Asn Arg Gly Arg Met Glu Met Phe Val
 35 40 45

<210> 5225

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5225

Trp Tyr Phe Ser Lys Cys Val Leu Val Val Ile Thr Ser Asn Ile Asn
 1 5 10 15

Leu Cys Cys Glu Ser Phe Val Ser Phe Ser Thr Val Phe Gln Arg Lys

4677

[illegible]

<210> 5226

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5226

Cys Leu Ala His Arg Lys Cys Ser Asp Met Leu Ser Asn Lys Lys Leu
1 5 10 15

Met Trp Trp Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu
20 25 30

Ala Glu Val Ser Gly Leu Gln Gly Gln Glu Phe Gln Thr Ser Leu Ala
35 40 45

Asn Met Xaa Lys Pro Arg Leu Tyr
50 55

<210> 5227

<211> 94

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

4678

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5227

Gln	Ser	Lys	Pro	Leu	Asn	Ile	Thr	His	Leu	His	Leu	Gln	Val	Trp	Pro
1				5					10					15	

Gln	Xaa	Phe	Lys	Trp	Leu	Leu	Ser	Leu	Leu	His	Ser	Thr	Tyr	Pro	Leu
			20					25					30		

Leu	Gln	Leu	Phe	His	Lys	Tyr	Arg	Leu	Asn	Ile	Pro	Tyr	Leu	Lys	Cys
			35				40					45			

Leu	Gly	Leu	Xaa	Val	Ser	Asp	Phe	Arg	Tyr	Val	Trp	Ile	Leu	Glu	Tyr
	50					55					60				

Leu	Tyr	Met	Tyr	Asn	Glu	Xaa	Leu	Leu	Glu	Leu	Gly	Pro	Lys	Ser	Lys
65					70					75					80

Gln	Asn	Ser	Phe	Met	Phe	His	Ile	Tyr	Leu	Ile	His	Ile	Thr
				85					90				

<210> 5228

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5228

Lys	Glu	Pro	Met	Gln	Val	Trp	Phe	Leu	Ser	Arg	Lys	Asn	Thr	Gly	Thr
1				5				10					15		

Glu	Glu	Thr	Lys	Gln	Asp	Asp	Asp
				20			

<210> 5229

<211> 133

<212> PRT

4679

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5229

Arg	Ala	Arg	Arg	Gly	Val	Ser	Val	Lys	Ala	Xaa	Lys	Xaa	Glu	Thr	Ala
1				5				10					15		

Ala	Thr	Met	Lys	Asp	Xaa	Ala	Leu	Lys	Xaa	Lys	Val	Ser	Thr	Ala	Thr
		20						25				30			

Val	Ser	Arg	Ala	Leu	Met	Asn	Pro	Asp	Lys	Val	Ser	Gln	Ala	Thr	Arg
		35					40					45			

Asn	Arg	Val	Glu	Lys	Ala	Ala	Arg	Glu	Val	Gly	Tyr	Leu	Pro	Gln	Pro
	50					55				60					

Met	Gly	Arg	Asn	Val	Lys	Arg	Asn	Glu	Ser	Arg	Thr	Ile	Leu	Val	Ile
65					70				75						80

Val	Pro	Asp	Ile	Cys	Asp	Pro	Phe	Phe	Ser	Glu	Ile	Ile	Arg	Gly	Ile
				85					90					95	

4681

Leu Arg His Phe Ile Asp Glu Glu Leu Glu Lys Met Asp Cys Val Gln
 50 55 60
 Gln Arg Lys Lys Gln Leu Ala Glu Leu Glu Thr Trp Val Ile Gln Lys
 65 70 75 80
 Glu Ser Glu Val Ala His Val Asp Gln Leu Phe Asp Asp Ala Ser Arg
 85 90 95
 Ala Val Thr Asn Cys Glu Ser Leu Val Lys Asp Phe Tyr Ser Lys Leu
 100 105 110
 Gly Leu Gln Tyr Arg Asp Ser Ser Ser Glu Asp Glu Ser Ser Arg Pro
 115 120 125
 Thr Glu Ile Ile Glu Ile Pro Asp Glu Asp Asp Asp Val Leu Ser Ile
 130 135 140
 Asp Ser Gly Asp Ala Gly Ser Arg Thr Pro Lys Asp Gln Lys Leu Arg
 145 150 155 160
 Glu Ala Met Ala Ala Leu Arg Lys Ser Ala Gln Asp Val Gln Lys Phe
 165 170 175
 Met Asp Ala Val Asn Lys Lys Ser Ser Ser Gln Asp Leu His Lys Gly
 180 185 190
 Thr Leu Ser Gln Met Ser Gly Glu Leu Ser Lys Asp Gly Asp Leu Ile
 195 200 205
 Val Ser Met Arg Ile Leu Gly Lys Lys Arg Thr Lys Thr Trp His Lys
 210 215 220
 Gly Pro Leu Leu Pro Xaa Arg Gln Leu Asp Gln Gly Ser Thr Gln Ala
 225 230 235 240
 Pro Val Xaa Ser Ala Xaa Gln Ala Gln Xaa Arg Lys Glu Asn His Leu
 245 250 255
 Xaa Thr Phe Ile Pro
 260

<210> 5231

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5231

Ile Asn Pro Ala Leu Leu Arg Lys Gly Asn Leu Phe Arg Gln Ser Gly

4682

1 5 10 15
 Lys Gly Val Leu Arg Lys Leu Ser Phe Phe Ile Pro Ser Phe Leu Pro
 20 25 30
 Thr Thr Val Thr Gly Tyr Arg Gly Leu Trp Thr Leu Lys Thr Asn Val
 35 40 45
 Trp Pro Leu Thr Gly Leu Ile Cys Ile Phe Leu
 50 55

<210> 5232

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5232

Thr Ser Ser Pro Trp Ala Ala Pro Pro Gly Ser Gly Gly Pro Glu Pro
 1 5 10 15
 Pro Arg Pro Gly Leu Pro Arg Leu Gly Leu Gly Asp Leu Asn Leu Leu
 20 25 30
 Thr Leu Gly Cys Pro Ser Trp
 35

<210> 5233

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5233

Lys Leu Cys Arg Leu Ile Asn Glu Asp Val Asn Glu Gln Val Met Gln
 1 5 10 15
 Val Leu Gly Pro Glu Asp Leu Gln Ser Ile Ile Tyr Lys Xaa Glu Glu
 20 25 30
 His Glu Glu Phe Phe Pro Ala Phe Gln Ala Phe Thr Asn Asp Leu Leu
 35 40 45
 Glu Ile Leu Glu Ile Asp Asp Leu Asp Ala Ile Val Pro Ala Val Lys

4683

50 55 60
 Lys Leu Lys Val Leu Ser Tyr
 65 70

 <210> 5234
 <211> 81
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5234
 Ala Leu Val Leu Ser Arg Glu Gln Glu Lys Leu Phe Glu Lys Gly Lys
 1 5 10 15

 Glu Ser Ile Pro Tyr Leu Ile Arg Thr His Arg His Ala Arg His Gly
 20 25 30

 His Gly Val His Val His Leu Ser His Val Thr Thr Ala Ala Ile His
 35 40 45

 Val His His Thr Ile His Cys Arg Ile Xaa Leu Val Gly Lys Leu Ala
 50 55 60

 Ala Gly Glu Arg Ser Leu Ser Lys Gln Met Val Tyr Tyr Leu Trp Ser
 65 70 75 80

 Thr

<210> 5235
 <211> 85
 <212> PRT
 <213> Homo sapiens

 <400> 5235
 Ala Asp Lys Asn Glu Ile Leu Phe Ser Glu Phe Asn Ile Asn Tyr Asn
 1 5 10 15

 Asn Glu Leu Pro Met Tyr Arg Lys Gly Thr Val Leu Ile Trp Gln Lys
 20 25 30

 Val Asp Glu Val Met Thr Lys Glu Ile Lys Leu Pro Thr Glu Met Glu

4684

35					40					45						
Gly	Lys	Lys	Met	Ala	Val	Thr	Arg	Thr	Arg	Thr	Lys	Pro	Val	Pro	Leu	
50					55					60						
His	Cys	Asp	Ile	Ile	Gly	Asp	Ala	Phe	Trp	Lys	Glu	His	Pro	Glu	Ile	
65					70					75					80	
Leu	Asp	Glu	Asp	Ser												
85																

<210> 5236

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5236

[illegible]

<210> 5237

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

4685

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5237

Glu Lys Xaa Ser Gly Val Val Trp Asp Arg Ser Ala Thr His Ser Glu
 1 5 10 15

Met Val Gln Glu Asn Gln Phe Phe Met Leu Tyr Phe Gln Ser Leu Tyr
 20 25 30

Lys Phe Val Phe Val Ser Lys Ile Lys Lys Arg Xaa Lys Met Glu Gly
 35 40 45

Lys Ile Pro Gly Arg Gln Met Asn Lys Arg His Glu
 50 55 60

<210> 5238

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5238

Lys Arg Lys Lys Ser Phe Trp Gly Met Leu Tyr His Ser Asn Gly Ser
 1 5 10 15

Val Thr Thr Tyr Phe Val Leu Ser Met Ser Leu Ile Pro Ser Tyr Glu
 20 25 30

Thr Ile Trp Leu Asp Tyr Pro Val Tyr Cys Val Glu Ile Lys Val Leu
 35 40 45

Ile Cys Thr Phe Leu Val Gln Tyr Leu Ser Tyr
 50 55

<210> 5239

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5239

Tyr Leu His Phe His Ile Leu Val Ile Cys Leu Leu His Thr Trp Gln
 1 5 10 15

Asn Lys Thr Glu Ile Pro Ser Gln Lys Lys Lys Glu Lys Glu Lys Lys
 20 25 30

Ile Ala Leu Tyr Leu Phe Leu Val Ser Thr Ala Met Lys Ile Leu Asn
 35 40 45

4686

Thr Pro Asn Ser Val Glu
50

<210> 5240

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5240

Cys Phe Phe Phe Ile Val Phe Gln Ser Val Ser Ile His Leu Lys Lys
1 5 10 15

Lys Asn Arg Asn Asn Ser Arg Tyr Phe Lys Gln Lys Gly Ile Trp Trp
20 25 30

Lys Gly Leu Thr Ile Val Met Ser Gly Arg Leu Val Glu Pro Lys Arg
35 40 45

Arg Gly Cys Cys Pro Lys Ile Arg Lys Leu Pro Val Pro Thr Pro Thr
50 55 60

Ala Ala Leu Leu Glu Ala
65 70

<210> 5241

<211> 119

<212> PRT

<213> Homo sapiens

<400> 5241

Thr Gly Glu Ala Ala Leu Trp Gly Leu Pro Ala Ala Gly Ala Gly Glu
1 5 10 15

Arg His Val Asp Thr Trp Pro Leu Trp Leu Pro Pro Ala Arg Ser Ser
20 25 30

Ala Gly Pro Ser Pro Trp Gly Trp Ala Ser Cys Ser Arg Ser Arg Thr
35 40 45

Pro Ser Gly Leu Lys Val Gly Glu Val Trp Trp Trp Arg Trp Gly Gly
50 55 60

Ser Glu Lys Cys Lys Arg Pro Val Gly Leu Gln Gln Lys Glu Ala Ser
65 70 75 80

Gly Gly Trp Asp Gly Gly Gln Trp Gly Lys Ala Leu Gly Ser Ile Gly

4687

	85		90		95
Gly Ser Leu Ala Ala Asn Ser Leu Asp Phe Gly Gly Gln Val Arg Pro					
	100		105		110
Ala Ser Leu Ala Pro Ala Ala					
	115				

<210> 5242

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5242

Gly Pro Xaa Lys Glu Arg Arg Phe Gly Ala Val Ala Cys Gly Val Ala
1 5 10 15

Met Glu Leu Tyr Val Phe Gly Gly Val Arg Ser Arg Glu Asp Ala Gln
20 25 30

Gly Ser Glu Met Val Thr Cys Lys Ser Glu Phe Tyr His Asp Glu Phe
35 40 45

Lys Arg Trp Ile Tyr Leu Asn Asp Gln Asn Leu Cys Ile Pro Ala Ser
50 55 60

Ser Ser Phe Val Tyr Gly Ala Val Pro Ile Gly Ala Ser Ile Tyr Val
65 70 75 80

Ile Gly Asp Leu Asp Thr Gly Thr Asn Tyr Asp Tyr Val Arg Glu Phe
85 90 95

Lys Arg Ser Thr Gly Thr Trp His Xaa Xaa Lys Pro Leu Leu Pro Ser
100 105 110

4688

Asp Leu Arg Arg Thr Gly Cys Ala Ala Leu Arg Ile Ala Asn Cys Lys
 115 120 125

Leu Phe Arg Leu Gln Leu Gln Gln Gly Leu Phe Arg Ile Arg Val His
 130 135 140

Ser Pro
 145

<210> 5243

<211> 104

<212> PRT

<213> Homo sapiens

<400> 5243

Asp Gly Pro Ala Lys Cys Arg Pro Leu Leu Leu Asn Lys Asn Ile Leu
 1 5 10 15

Lys Pro Leu Phe Leu Leu His Gly Gln Glu Ala Ala Arg Glu Ser Ala
 20 25 30

Arg Val Pro Trp Ser Glu Leu Ala Ser Pro Cys Leu Leu Cys Pro Arg
 35 40 45

Ala Ala Trp Phe Leu Val Gln Cys Ser Asp Thr Ala Cys Pro Ser Pro
 50 55 60

Thr Ser Ser Gln Gln His Leu Leu Ser Leu Ala Ala Met Ala Met Thr
 65 70 75 80

Thr Pro Glu Lys Gln Leu Gln Gly Pro Ser Gln Ile Leu Phe Cys Leu
 85 90 95

His Ala Ser Ala Gly Cys Arg Tyr
 100

<210> 5244

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

4689

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (241)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5244

Ile	Glu	Thr	Ser	Asn	Lys	Asn	Asp	Met	Thr	Ile	Asp	Ile	Leu	His	Ala
1				5					10					15	

Asp	Gly	Glu	Arg	Pro	Asn	Val	Leu	Glu	Asn	Leu	Asp	Asn	Ser	Lys	Glu
			20					25					30		

Lys	Thr	Val	Gly	Ser	Glu	Ala	Ala	Lys	Thr	Glu	Asp	Thr	Val	Leu	Cys
		35					40					45			

Ser	Ser	Asp	Thr	Asp	Glu	Glu	Cys	Leu	Ile	Ile	Xaa	Thr	Glu	Cys	Lys
	50					55					60				

Asn	Asn	Ser	Asp	Gly	Lys	Thr	Ala	Val	Val	Gly	Ser	Asn	Leu	Ser	Ser
65					70					75				80	

Arg	Pro	Ala	Ser	Pro	Asn	Ser	Ser	Ser	Gly	Gln	Ala	Ser	Val	Gly	Asn
				85					90					95	

Gln	Thr	Asn	Thr	Ala	Cys	Xaa	Pro	Glu	Glu	Ser	Cys	Val	Leu	Lys	Lys
		100						105					110		

Pro	Ile	Lys	Arg	Val	Tyr	Lys	Lys	Phe	Asp	Pro	Val	Gly	Glu	Ile	Leu
		115					120					125			

Lys	Met	Gln	Asp	Glu	Leu	Xaa	Lys	Pro	Ile	Ser	Arg	Lys	Val	Pro	Glu
	130					135					140				

Leu	Pro	Leu	Met	Asn	Leu	Glu	Asn	Ser	Lys	Gln	Pro	Ser	Val	Ser	Glu
145					150					155					160

Gln	Leu	Ser	Gly	Pro	Ser	Asp	Ser	Ser	Ser	Trp	Pro	Lys	Ser	Gly	Trp
				165					170					175	

Pro	Ser	Ala	Phe	Gln	Lys	Pro	Lys	Gly	Arg	Leu	Pro	Tyr	Glu	Leu	Gln
				180				185					190		

4690

Asp	Tyr	Val	Glu	Asp	Thr	Ser	Glu	Tyr	Leu	Ala	Pro	Gln	Glu	Gly	Asn			
		195					200					205						
Phe	Val	Tyr	Lys	Leu	Phe	Ser	Leu	Gln	Asp	Leu	Leu	Leu	Leu	Val	Arg			
	210					215				220								
Cys	Ser	Val	Gln	Arg	Ile	Glu	Thr	Arg	Pro	Arg	Ser	Lys	Lys	Arg	Lys			
225					230					235					240			
Xaa	Ile	Arg	Arg	Gln	Phe	Pro	Val	Tyr	Val	Leu	Pro	Lys	Val	Glu	Tyr			
			245						250					255				
Gln	Ala	Cys	Tyr	Gly	Val	Glu	Ala	Leu	Thr	Glu	Ser	Glu	Leu	Cys	Arg			
			260					265					270					
Leu	Trp	Thr	Glu	Ser	Leu	Leu	His	Ser	Asn	Ser	Ser	Phe	Tyr	Val	Gly			
		275					280					285						
His	Ile	Asp	Ala	Phe	Thr	Ser	Lys	Leu	Phe	Leu	Leu	Glu	Glu	Ile	Thr			
	290					295					300							
Ser	Glu	Glu	Leu	Lys	Glu	Lys	Leu	Ser	Ala	Leu	Lys	Ile	Ser	Asn	Leu			
305					310					315					320			
Phe	Asn	Ile	Leu	Gln	His	Ile	Leu	Lys	Lys	Leu	Ser	Ser	Leu	Gln	Glu			
				325					330					335				
Gly	Ser	Tyr	Leu	Leu	Ser	His	Ala	Ala	Glu	Asp	Ser	Ser	Leu	Leu	Ile			
			340					345					350					
Tyr	Lys	Ala	Ser	Asp	Gly	Lys	Val	Thr	Arg	Thr	Ala	Tyr	Asn	Leu	Tyr			
		355					360					365						
Lys	Thr	His	Cys	Gly	Leu	Pro	Gly	Val	Pro	Ser	Ser	Leu	Ser	Val	Pro			
	370					375					380							
Trp	Val	Pro	Leu	Asp	Pro	Ser	Leu	Leu	Leu	Pro	Tyr	His	Ile	His	His			
385					390					395				400				
Gly	Arg	Ile	Pro	Cys	Thr	Phe	Pro	Pro	Lys	Ser	Leu	Asp	Thr	Thr	Thr			
				405					410					415				
Gln	Gln	Lys	Ile	Gly	Gly	Thr	Arg	Met	Pro	Thr	Arg	Ser	His	Arg	Asn			
			420					425					430					
Pro	Val	Ser	Met	Glu	Thr	Lys	Ser	Ser	Cys	Leu	Pro	Ala	Gln	Gln	Val			
		435					440					445						
Glu	Thr	Glu	Gly	Val	Ala	Pro	His	Lys	Arg	Lys	Ile	Thr						
	450					455					460							

4691

<210> 5245

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5245

Leu Tyr Ser Pro Phe Gln Phe Phe Leu Pro Leu Phe Leu Phe Leu Ser
 1 5 10 15

Cys Ser Pro Leu Ser Ala Leu Gln Asp Phe Pro Ala Thr Trp Val Leu
 20 25 30

Val Leu Lys Leu Pro Tyr Thr Phe Thr Val Phe Phe Leu Leu Pro Phe
 35 40 45

Phe Leu Ile Phe Ile Ser Phe Leu Asn Phe Leu Ser Leu Ser Ser Leu
 50 55 60

Pro Phe Leu Leu Ser Phe Leu Phe Val His Val Ile Ser Ser Pro Cys
 65 70 75 80

Leu Pro Pro Leu Thr Phe Leu Tyr Phe Leu Ser Leu Pro Pro Tyr Tyr
 85 90 95

Ser Phe Leu Phe Leu Val Leu Gln Phe Asn Tyr Phe Lys His Ile Thr
 100 105 110

His Lys Ala Cys His Ser Leu Asp Phe
 115 120

<210> 5246

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5246

Thr Leu His Thr Ala His Pro Ser Pro Val Leu Thr Leu Cys Ser Tyr
 1 5 10 15

His Ser Leu Ala Ala Cys His Ala Val Gly Leu Gln Ile Cys Thr His
 20 25 30

Lys Phe Leu Arg Lys Ser Leu His Glu His His Leu Ala Ile Phe Cys
 35 40 45

Thr Asp Gln Thr Arg Asp Leu Asn Val Phe Gln His Lys Arg Ile Thr

4692

50 55 60

Ser Glu Trp Trp Ser Val Arg Ile Leu Ala Lys Val Met Val Ile
65 70 75

<210> 5247
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5247
Leu Glu Glu Thr Leu Phe Leu Gln Gly Thr Lys Gln Leu Tyr Phe Ser
1 5 10 15
Thr Asp Met His Tyr Phe His Cys Glu Phe Thr Phe Leu Leu His Val
20 25 30
Gln Met Ser Leu Phe Val Phe Phe Phe Cys Asn Ile Asn Cys Asn Asp
35 40 45
Val Leu Pro Gly Ile His Glu Asn Ile Ile Lys Thr His Phe
50 55 60

<210> 5248
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5248
Pro Gly Glu Pro Lys Pro Thr Pro Arg Gly Lys Pro Gly Gln Thr Gly
1 5 10 15

4693

Gly Pro Pro Ser Trp Tyr Xaa Pro Xaa Lys Leu Ile Ala Leu Xaa Gly
 20 25 30

Gly Gly Glu Lys Thr Pro Thr His Leu Val Arg Glu Val Phe Cys Leu
 35 40 45

Tyr Cys Gly Val Arg Ala Glu Glu Lys Ser Leu Phe Phe Pro Leu Arg
 50 55 60

Leu Cys Phe Lys Glu Gln Gly Arg Gly Lys Phe Cys Gly Phe
 65 70 75

<210> 5249

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5249

Lys Leu Thr Lys Cys Pro Val Arg Trp Leu Arg Pro Ala Ile Pro Ala
 1 5 10 15

Leu Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Ala Arg Ser Leu Arg
 20 25 30

Thr Ala Trp Pro Thr Trp Arg Asn Pro Val Ser Thr Ile Xaa Thr Lys
 35 40 45

Phe Asn Gln Ala Trp Trp Trp Ala Pro Val Val Pro Ala Tyr Leu Gly
 50 55 60

Asp Leu Ser His Glu Glu Ser Leu Xaa Pro Ser Trp Val Gly Xaa Leu
 65 70 75 80

4694

<210> 5250

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5250

Pro Pro Gly Ser Asn Lys Pro Pro Ala Ser Ala Tyr Gln Val Ala Glu
1 5 10 15

Thr Thr Gly Thr Tyr His Arg Ala Cys Leu Ile Phe Lys Ile Phe Tyr
20 25 30

Lys Asp Glu Val Ser Leu Cys Cys Pro Gly Trp Ser Gln Thr Pro Asn
35 40 45

Leu Lys Gln Ser Ala His Val Gly Leu Pro Lys Cys
50 55 60

<210> 5251

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5251

Val Tyr Gly Asn Tyr Leu Ile Ile Leu Lys Arg Thr His Phe Ser Cys
1 5 10 15

Lys Tyr Val Thr Ser Glu Phe Lys Lys Ile Thr Leu Asn Thr Leu Ile
20 25 30

Phe Ala Ala Phe Phe Ser Val Tyr Ile Thr Cys Leu Leu Ser Glu Trp
35 40 45

Glu Tyr Met Cys Ala Ser Gln His Leu Leu Leu Lys Cys Val Ile Phe
50 55 60

Ile Cys Gln Thr Gly
65

<210> 5252

<211> 54

<212> PRT

<213> Homo sapiens

4695

<400> 5252

Arg His Lys Asp Thr Phe Arg Ile Val Lys Thr Leu Ser Ile Glu Lys
 1 5 10 15

Phe Leu Asn Glu Thr Val Ser Lys Lys Ser Phe Ala Ser Arg Phe Leu
 20 25 30

Arg Gly Ala Ile Lys Lys Arg Thr Leu Pro Val Val Thr Ala Ala Ala
 35 40 45

Ile Ala Pro Leu Tyr Cys
 50

<210> 5253

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5253

Phe His Leu Gln Gln Leu Leu Glu Arg Lys Pro Asp Asn Tyr Met Thr
 1 5 10 15

Leu Ser Arg Leu Ile Asp Leu Leu Arg Arg Cys Gly Lys Leu Glu Asp
 20 25 30

Val Pro Arg Phe Phe Ser Met Ala Glu Lys Arg Asn Ser Arg Ala Lys
 35 40 45

Leu Glu Pro Gly Phe Gln Tyr Cys Lys Gly Leu Tyr Leu Trp Tyr Thr
 50 55 60

Gly Xaa Xaa Asn Asp Ala Leu Arg His Phe Asn Lys Ala Arg Lys Asp
 65 70 75 80

Arg Asp Trp Gly Gln Asn Ala Leu Tyr Asn Met Ile Glu Asn Leu Phe
 85 90 95

Glu Ser Arg

4696

<210> 5254

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5254

Ser Val Leu Trp Asn Ala Met Ile His Pro Leu Cys Asn Met Thr Leu
 1 5 10 15

Lys Gly Val Val Trp Tyr Gln Gly Glu Ser Asn Ile Asn Tyr Asn Thr
 20 25 30

Asp Leu Tyr Asn Cys Thr Phe Pro Ala Leu Ile Glu Asp Trp Arg Glu
 35 40 45

Thr Phe His Arg Gly Ser Gln Gly Gln Thr Glu Arg Phe Phe Pro Phe
 50 55 60

Gly Leu Val Gln Leu Ser Ser Asp Leu Ser Lys Lys Xaa Ser Asp Asp
 65 70 75 80

Gly Phe Pro Gln Ile Arg Trp His Gln Thr Ala Asp Phe Gly Tyr Val
 85 90 95

Pro Asn Pro Lys Met Pro Asn Thr Phe Met Ala Val Ala Met Asp Leu
 100 105 110

Cys Asp Arg Asp Ser Pro Phe Gly Ser Ile His Pro Arg Asp Lys Gln
 115 120 125

Asn Cys Gly Leu Ser Ala Ala Phe Gly Gly Pro Cys Ser Gly Leu Trp
 130 135 140

<210> 5255

<211> 56

<212> PRT

<213> Homo sapiens

4697

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5255

Val	Leu	Pro	Leu	Leu	Pro	Lys	Val	Leu	Gly	Leu	Arg	His	His	Thr	Gln
1				5					10					15	

Pro	Lys	Leu	Lys	Ala	Ile	Phe	Ser	Asn	Ser	His	Gln	Cys	Gly	Tyr	Cys
			20					25					30		

Tyr	Lys	Xaa	Xaa	Trp	Phe	Leu	Gly	His	Ile	Trp	Tyr	Gln	Asn	Val	Tyr
		35					40					45			

Val	Tyr	Pro	Tyr	Lys	Tyr	Gly	Met
	50					55	

<210> 5256

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (347)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5256

Asn	Leu	Asn	Met	Glu	Ala	Thr	Gly	Thr	Asp	Glu	Val	Asp	Lys	Leu	Lys
1				5					10					15	

Thr	Lys	Phe	Ile	Ser	Ala	Trp	Asn	Asn	Met	Lys	Tyr	Ser	Trp	Val	Leu
			20					25					30		

Lys	Thr	Lys	Thr	Tyr	Phe	Ser	Arg	Asn	Ser	Pro	Val	Leu	Leu	Leu	Gly
		35					40					45			

Lys	Cys	Tyr	His	Phe	Lys	Tyr	Glu	Asp	Glu	Asp	Lys	Thr	Leu	Pro	Ala
	50					55					60				

Glu	Ser	Gly	Cys	Thr	Ile	Glu	Asp	His	Val	Ile	Ala	Gly	Asn	Val	Glu
65					70					75				80	

4698

Glu	Phe	Arg	Lys	Asp	Phe	Ile	Ser	Arg	Ile	Trp	Leu	Thr	Tyr	Arg	Glu		
				85					90					95			
Glu	Phe	Pro	Gln	Ile	Glu	Gly	Ser	Ala	Leu	Thr	Thr	Asp	Cys	Gly	Trp		
				100					105					110			
Gly	Cys	Thr	Leu	Arg	Thr	Gly	Gln	Met	Leu	Leu	Ala	Gln	Gly	Leu	Ile		
				115					120					125			
Leu	His	Phe	Leu	Gly	Arg	Ala	Trp	Thr	Trp	Pro	Asp	Ala	Leu	Asn	Ile		
				130					135					140			
Glu	Asn	Ser	Asp	Ser	Glu	Ser	Trp	Thr	Ser	His	Thr	Val	Lys	Lys	Phe		
145				150				155				160					
Thr	Ala	Ser	Phe	Glu	Ala	Ser	Leu	Ser	Gly	Glu	Arg	Glu	Phe	Lys	Thr		
				165				170				175					
Pro	Thr	Ile	Ser	Leu	Lys	Glu	Thr	Ile	Gly	Lys	Tyr	Ser	Asp	Asp	His		
				180				185				190					
Glu	Met	Arg	Asn	Glu	Val	Tyr	His	Arg	Lys	Ile	Ile	Ser	Trp	Phe	Gly		
				195				200				205					
Asp	Ser	Pro	Leu	Ala	Leu	Phe	Gly	Leu	His	Gln	Leu	Ile	Glu	Tyr	Gly		
210				215				220									
Lys	Lys	Ser	Gly	Lys	Lys	Ala	Gly	Asp	Trp	Tyr	Gly	Pro	Ala	Val	Val		
225				230				235				240					
Ala	His	Ile	Leu	Arg	Lys	Ala	Val	Glu	Glu	Ala	Arg	His	Pro	Asp	Leu		
				245				250				255					
Gln	Gly	Ile	Thr	Ile	Tyr	Val	Ala	Gln	Asp	Cys	Thr	Val	Pro	Val	Arg		
				260				265				270					
Leu	Gly	Gly	Glu	Arg	Thr	Asn	Thr	Asp	Tyr	Leu	Glu	Phe	Val	Lys	Gly		
				275				280				285					
Ile	Leu	Ser	Leu	Glu	Tyr	Cys	Val	Gly	Ile	Ile	Gly	Gly	Lys	Pro	Lys		
290				295				300									
Gln	Ser	Tyr	Tyr	Phe	Ala	Gly	Phe	Gln	Asp	Asp	Ser	Leu	Ile	Tyr	Met		
305				310				315				320					
Asp	Pro	His	Tyr	Cys	Gln	Ser	Phe	Val	Asp	Val	Ser	Ile	Lys	Asp	Phe		
				325				330				335					
Pro	Leu	Glu	Thr	Phe	His	Cys	Pro	Ser	Pro	Xaa	Lys	Met	Ser	Phe	Arg		
				340				345				350					

4699

Lys Met Asp Pro Ser Cys Thr Ile Gly Phe Tyr Cys Arg Asn Val Gln
 355 360 365

Asp Phe Lys Arg Ala Ser Glu Glu Ile Thr Lys Met Leu Lys Phe Ser
 370 375 380

Ser Lys Glu Lys Tyr Pro Leu Phe Thr Phe Val Asn Gly His Ser Arg
 385 390 395 400

Asp Tyr Asp Phe Thr Ser Thr Thr Thr Asn Glu Glu Asp Leu Phe Ser
 405 410 415

Glu Asp Glu Lys Lys Gln Leu Lys Arg Phe Ser Thr Glu Glu Phe Val
 420 425 430

Leu Leu

<210> 5257

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5257

Tyr Ile Ser Cys Ile Phe Tyr Asp Phe Ser Ile Lys His Ser Gly Val
 1 5 10 15

Leu Ala Phe Pro Gly Lys Gly Lys Leu Val Cys Ala Leu Val Lys Tyr
 20 25 30

Leu Asn Ser Asn Val Pro Tyr Ser Ala Cys Ile His Phe Val Lys Ser
 35 40 45

Phe Val Val Leu Leu Glu Gln Phe Ser Lys Ala Asp Phe Met Pro Tyr
 50 55 60

Leu Ile Glu Ile
 65

<210> 5258

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4700

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5258

Ile Ala Gly Arg Gly Ile Met Ala Cys Gln His Ser Leu Cys Pro Xaa

1 5 10 15

Asn Leu Arg Pro Arg Met Arg Ser Cys Gln His Asn Ile His Pro Phe

20 25 30

Glu Gln Met Glu Ser Gly Thr Leu Thr Gln Pro Ser Val Leu Asn Asn

35 40 45

Thr Ala Ile Ile Ala Thr Cys Ser Val Val Asn Val Asn Pro Gln Ser

50 55 60

Gln Leu Asn Tyr Phe Arg Pro Asn Ile Leu Phe Leu

65 70 75

<210> 5259

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5259

Gln Gly Phe Gly Arg Pro Ser Val Tyr His Ala Ala Ile Val Xaa Phe

1 5 10 15

Leu Glu Phe Phe Ala Trp Gly Leu Leu Thr Thr Pro Met Leu Thr Val

20 25 30

Leu His Glu Thr Phe Ser Gln His Thr Phe Leu Met Asn Gly Leu Ile

35 40 45

4701

Gln Gly Val Lys Gly Leu Leu Ser Phe Leu Ser Ala Pro Leu Ile Gly
 50 55 60

Ala Leu Ser Asp Val Trp Gly Arg Lys Pro Phe Leu Leu Gly Thr Val
 65 70 75 80

Phe Phe Xaa Xaa Phe Pro Ile Pro Leu Met Arg Ile Ser Pro Cys Phe
 85 90 95

Leu Lys Lys Lys Thr His Gln Trp Thr
 100 105

<210> 5260
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 5260
 Leu Arg Tyr Ser Leu Ile Phe Tyr Ile Ala Ala Leu Phe Phe Leu Phe
 1 5 10 15

Cys Ser Ile Ser Glu Ile Ser His Val Tyr Thr Leu Asn Ile Asn Ile
 20 25 30

Arg Asn His Ala Ile Ile Ser Thr Met Tyr Leu Val Val Ser Tyr Ile
 35 40 45

Cys Ile Thr Leu Leu His Phe Ala Asn
 50 55

<210> 5261
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5261
 Leu Ile Tyr Lys Tyr Asn Tyr Thr Lys Leu Gln Asn Ile Val Xaa Met
 1 5 10 15

Lys Thr Lys Asn Leu Val Pro Asn Ile
 20 25

4702

<210> 5262

<211> 97

<212> PRT

<213> Homo sapiens

<400> 5262

Ser Asp Lys Ala Leu Ala Ser Asp Pro Cys Gln Asn Ser Ile Asn Gly
 1 5 10 15

Cys Leu Glu Val Asp Val His Ile Tyr Ser Glu Met Phe Cys His Leu
 20 25 30

Arg Pro Met Arg Arg Leu Cys Leu Glu Lys Ile Phe Pro His Trp Phe
 35 40 45

Pro Phe Ser Arg Ala Leu Ser Gly Ala Glu Ala Val Asn Ala Leu Arg
 50 55 60

Pro Phe Tyr Phe Ala Val His Pro Asp Phe Phe Gly Gln His Pro Val
 65 70 75 80

Glu Arg Asp Asp Thr Trp Lys Ser Phe Gln Cys Pro Ser Asp Phe Ser
 85 90 95

Leu

<210> 5263

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4703

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5263

Ala	Ser	Cys	Arg	Thr	Xaa	Ser	Arg	Met	Ala	Ile	Phe	Glu	Leu	Val	Ser
1					5				10					15	

Lys	Xaa	Arg	Xaa	Leu	Tyr	Leu	Xaa	Gln	Lys	Ile	Leu	Cys	Glu	Leu	Ser
			20					25					30		

Gly	His	Xaa	Asp	Leu	Phe	Val	Asp	Val	Asn	Lys	His	Leu	Phe	Asp	Gly
		35					40					45			

Glu	Val	Cys	Ala	Ile	Asn	His	Phe	Val	Lys	Leu	Leu	Lys	Asp	Ile	Ile
	50					55					60				

Ile	Cys	Phe	Leu	Asn	Ile	Arg	Ala	Lys	Asn	Val	Ala	Gln	Asn	Pro	Leu
65					70				75						80

Lys	His	His	Ser	Glu	Arg	Thr	Asp	Met	Lys	Thr	Leu	Ser	Arg	Lys	His
				85					90					95	

Trp	Ser	Ser	Val	Gln	Asp	Tyr	Lys	Cys	Ser	Ser	Phe	Ala	Asn	Thr	Ser
			100					105					110		

Ser	Lys	Phe	Arg	His	Leu	Leu	Ser	Asn	Asp	Gly	Tyr	Pro	Phe	Lys	
		115						120					125		

<210> 5264

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5264

Asp	Ser	Phe	Ile	Leu	His	Leu	Phe	Ile	Gln	Leu	Ile	Phe	Val	Glu	His
1					5				10					15	

Leu	His	Val	Pro	Asp	Ile	Ile	Lys	Cys	Trp	Val	Tyr	Gly	Asn	Glu	Gln
			20					25					30		

Asn	Arg	Gln	Gly	Pro	Cys	Pro	Phe	Arg	Gly	Asp	Arg				
		35						40							

4704

<210> 5265

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5265

Leu	Lys	Ile	Asp	Thr	Asn	Arg	Ile	Arg	Thr	Glu	Asn	Gly	Ser	Ile	Leu
1				5					10					15	

Pro	Ser	Val	Val	Pro	Gln	Glu	His	Asn	Thr	Leu	Pro	Val	Ser	Gln	Ala
			20					25					30		

Pro	Ser	Lys	Pro	Asn	Leu	Thr	Ser	Glu	His	Thr	Ser	Tyr	Gly	Leu	Ile
		35				40						45			

Leu	Thr	Lys	Pro	Tyr	Val	Arg	Pro	Leu	Pro	Pro	Ser	Tyr	Leu	Asp	Glu
	50					55					60				

Arg	Tyr	Leu	Xaa	Met	Pro	Lys	Arg	Arg	Lys	Phe	Leu	Thr	Asp	Arg	Val
65					70					75					80

Xaa	Ala	Cys	Ser	Asp	Gln	Asp	Asn	Val	Tyr	Lys	Lys	Ser	Val	Lys	Arg
				85				90						95	

Leu	Arg	Cys	Gly	Lys	Cys	Leu	Thr	Thr	Tyr	Cys	Asn	Ala	Xaa	Ala	Leu
			100					105					110		

Glu	Ala	His	Leu	Ala	Gln	Lys	Lys	Cys	Gln	Thr	Leu	Phe	Gly	Ile	
		115				120						125			

<210> 5266

4705

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5266

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Leu Pro Gly Pro Gly Ala Cys Pro Glu Gly Val Trp Thr Leu Asn Ser
 1             5             10             15

Ala Pro Thr Gln Gly Pro Thr Ala Ala Pro Gly Ala Cys His Pro Gly
      20             25             30

Leu Leu Gly Arg Gly Gln Gly Leu Xaa Leu Gly Leu Pro Ser Thr Pro
      35             40             45

Gly Thr Pro Thr Pro Thr Pro His Thr Ser Leu Gly Ser Pro Val Ser
      50             55             60

Ser Asp Pro Val His Met Ser Pro Leu Glu Pro Arg Gly Gly Gln Gly
      65             70             75             80

Asp Gly Leu Ala Leu Val Leu Ile Leu Ala Phe Cys Val Ala Gly Ala
      85             90             95

Ala Ala Leu Ser Val Ala Ser Leu Cys Trp Cys Arg Leu Gln Arg Glu
      100            105            110

Ile Arg Leu Thr Gln Lys Ala Asp Tyr Ala Thr Ala Lys Ala Pro Gly
      115            120            125

Ser Pro Ala Ala Pro Arg Ile Ser Pro Gly Asp Gln Arg Leu Ala Gln
      130            135            140

Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Cys
      145            150            155            160

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Ser Ser
      165            170            175

Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly
      180            185            190

Leu Ala Pro Thr Gly Glu Met Glu Val Arg Asn Pro Leu Phe Asp His
      195            200            205

Ala Ala Leu Ser Ala Pro Leu Pro Ala Pro Ser Ser Pro Pro Ala Leu
      210            215            220

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4706

Pro
225

<210> 5267

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5267

Xaa Phe Cys Val Ala Gly Ala Ala Ala Leu Ser Val Ala Ser Leu Cys
1 5 10 15

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln Lys Ala Asp Tyr
20 25 30

Ala Thr Ala Lys Ala Pro Gly Ser Pro Ala Ala Pro Arg Ile Ser Pro
35 40 45

Gly Asp Gln Arg Leu Ala Gln Ser Ala Glu Met Tyr His Tyr Gln His
50 55 60

Gln Arg Gln Gln Met Leu Cys Leu Glu Arg Xaa Glu Val Gly Xaa Xaa
65 70 75 80

Pro Thr Ser Arg Leu Gly His Trp His Leu Glu Gly Met Gly Arg Thr
85 90 95

Gln Arg Ser Pro Pro Thr Gln Ala

4707

100

<210> 5268

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5268

Glu Pro His Leu Ser Met Cys Lys Arg Cys Ile Pro Arg Pro Val Asn
 1 5 10 15

Gly Ser Leu Arg Lys Phe Cys Met Gln Ala Val Phe Ser Ser Arg Thr
 20 25 30

Asn Asn Trp Glu Ile Ser Lys Lys Leu His Arg Ser Pro Ala Trp Cys
 35 40 45

Cys Ser Ser Leu Tyr Phe Thr Leu Asn Ser Gly Trp Glu Glu Lys Gly
 50 55 60

Asn Lys Leu Trp Leu Phe Pro Ser Gln Lys Tyr Cys Gly Thr Ser Thr
 65 70 75 80

Phe Gln Cys Phe Ala Phe
 85

<210> 5269

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5269

His Cys Glu Cys Cys Ser Asp Ile Leu Tyr Arg His Leu Thr Ala Gln
 1 5 10 15

Asn Phe Cys Phe Ile Ser Cys Leu Thr Tyr Gln Lys Gly Arg Lys Val
 20 25 30

Gly Met Ile Ser Lys Val Lys Lys Lys Lys Lys Lys Lys Thr Phe Tyr
 35 40 45

Arg Lys Leu Ile Asn Asn His Val Ile Leu Gln Phe Cys Tyr Gln Asn
 50 55 60

Phe Pro Gln Glu Phe Ser Asn Ile Ser Ser Ala Met Trp Leu
 65 70 75

4708

<210> 5270

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5270

Arg Pro Val Arg Thr Tyr Xaa Ala Lys Leu Leu Ala Phe Gly Ile Pro
1 5 10 15

Leu Asp Asn Val Gly Phe Lys Pro Leu Glu Thr Ala Val Ile Gly Gln
20 25 30

Thr Leu Gly Gln Gly Pro Ala Gly Leu Val Gly Thr Pro Thr
35 40 45

<210> 5271

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5271

Lys Ile Phe Cys Arg Asp Lys Leu Ser Leu Cys Phe Pro Gly Trp Ser
1 5 10 15

Arg Thr Ser Gly Leu Lys Arg Phe Phe Cys Leu Ser Leu Gln Asn Tyr
20 25 30

Trp Asp Tyr Ser Met Ser His His Ala Gln Leu Tyr Ser Leu Leu Ile
35 40 45

Tyr

<210> 5272

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5272

Lys Glu Ala Val Phe Pro Arg Lys Thr His Gln Pro Gly Leu Arg Lys

4709

1 5 10 15
 Lys Met Gly Pro Pro Ser Glu Gly Met Trp Trp Trp Lys His Ser Thr
 20 25 30
 Gly Pro Gly Phe Gly Ala Ser Phe Pro Pro Pro Gln Pro Met Leu Thr
 35 40 45
 Leu Pro Gly Lys Ala Pro Gly Ser Pro Gln Gly Arg Arg Lys Lys Arg
 50 55 60
 Gly Leu Cys Ser
 65

<210> 5273

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5273

Arg Thr Lys Arg Thr His Ala Gly Gly Arg Ser Arg Xaa Val Asp Pro
 1 5 10 15

Arg Ala Ala Glu Phe Gly Thr Ala Arg Leu Gly Ser Leu Cys Lys Thr
 20 25 30

Ser Pro Phe Leu Glu Met Met Met Pro Ser Lys Pro Gly Pro Gly Pro
 35 40 45

Asp Leu Gln Ala His Thr Trp Pro Val Ala Leu Arg Ser Pro Gly
 50 55 60

<210> 5274

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

4710

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5274

Cys	Ser	Ile	Asn	Gly	Thr	Leu	Tyr	Gln	Pro	Gly	Ala	Val	Val	Ser	Ser
1				5				10						15	

Ser	Leu	Cys	Glu	Thr	Cys	Arg	Cys	Glu	Leu	Pro	Gly	Gly	Pro	Pro	Ser
			20					25					30		

Asp	Ala	Phe	Val	Val	Ser	Cys	Glu	Thr	Gln	Ile	Cys	Asn	Thr	His	Cys
		35					40					45			

Pro	Val	Gly	Phe	Glu	Tyr	Gln	Glu	Gln	Ser	Gly	Gln	Cys	Cys	Gly	Thr
	50					55					60				

Cys	Val	Gln	Val	Ala	Cys	Val	Thr	Asn	Thr	Ser	Lys	Ser	Pro	Ala	His
65					70					75					80

Leu	Phe	Tyr	Pro	Gly	Glu	Thr	Trp	Ser	Asp	Ala	Gly	Asn	His	Cys	Val
				85				90						95	

Thr	His	Gln	Cys	Glu	Lys	His	Gln	Asp	Gly	Leu	Val	Val	Val	Thr	Thr
		100					105						110		

Lys	Lys	Ala	Cys	Pro	Pro	Leu	Xaa	Cys	Ser	Leu	Asp	Glu	Ala	Arg	Met
		115				120						125			

Ser	Lys	Asp	Gly	Cys	Cys	Arg	Phe	Cys	Pro	Xaa	Pro	Xaa	Pro	Pro	Tyr
	130					135					140				

Gln	Asn	Gln	Ser	Thr	Cys	Ala	Val	Tyr	His	Arg	Ser	Leu	Ile	Ile	Gln
145					150					155					160

Gln	Gln	Gly	Cys	Ser	Ser	Ser	Glu	Pro	Val	Arg	Leu	Ala	Tyr	Cys	Arg
			165					170						175	

Gly	Asn	Cys	Gly	Asp	Ser	Ser	Ser	Met	Tyr	Ser	Leu	Glu	Gly	Asn	Thr
		180						185						190	

4711

Val Glu His Arg Cys Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg
 195 200 205

Asn Val Thr Leu His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr
 210 215 220

Thr Glu Val Glu Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro
 225 230 235 240

Gly Asp Thr Gln His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Xaa
 245 250 255

Ala

<210> 5275

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5275

Asn Phe Lys Ser Ile His Phe Thr His Leu Phe Cys Leu Phe Thr Lys
 1 5 10 15

Leu Phe Leu Lys Arg Ala Leu Cys His Gln Asn Met Leu Asp Leu Ile
 20 25 30

Ile Leu Arg Ser Leu Leu Ser Lys Tyr Leu Val Tyr Ile Phe Ser Leu
 35 40 45

Ala Asn Leu Cys Val Tyr Ile His Ser Ile
 50 55

<210> 5276

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5276

Asn Ser Ala Glu Ala Val Glu Arg Asn Leu Val Arg Val Ala Glu Val
 1 5 10 15

Trp Leu Asp Glu Tyr Lys Glu Leu Phe Tyr Gly His Gly Asp His Leu
 20 25 30

Ile Asp Gln Gly Leu Asp Val Gly Asn Leu Thr Gln Gln Arg Glu Leu

4712

35	40	45
Arg Lys Lys Leu Lys Cys Lys Ser Phe Lys Trp Tyr Leu Glu Asn Val		
50	55	60
Phe Pro Asp Leu Arg Ala Pro Ile Val Arg Ala Ser Gly Val Leu Ile		
65	70	75
Asn Val Ala Leu Gly Lys Cys Ile Ser Ile Glu Asn Thr Thr Val Ile		
85	90	95
Leu Glu Asp Cys Asp Gly Ser Lys Glu Leu Gln Gln Phe Asn Tyr Thr		
100	105	110
Trp Leu Arg Leu Ile Lys Cys Gly Glu Trp Cys Ile Ala Pro Ile Pro		
115	120	125
Asp Lys Gly Ala Val Arg Leu His Pro Cys Asp Asn Arg Asn Lys Gly		
130	135	140
Leu Lys Trp Leu His Lys Ser Thr Ser Val Phe His Pro Glu Leu Val		
145	150	155
Asn His Ile Val Phe Glu Asn Asn Gln Gln Leu Leu Cys Leu Glu Gly		
165	170	175
Asn Phe Ser Gln Lys Ile Leu Lys Val Ala Ala Cys Asp Pro Val Lys		
180	185	190
Pro Tyr Gln Lys Trp Lys Phe Glu Lys Tyr Tyr Glu Ala		
195	200	205

<210> 5277

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4713

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5277

Pro	Leu	Ala	Met	Asp	Ser	Gln	Lys	Glu	Ala	Leu	Gln	Arg	Ile	Ile	Ser
1				5				10						15	

Thr	Leu	Ala	Asn	Lys	Asn	Asp	Glu	Ile	Gln	Asn	Phe	Ile	Asp	Thr	Leu
			20				25						30		

His	His	Thr	Leu	Lys	Gly	Val	Gln	Glu	Asn	Ser	Ser	Asn	Ile	Leu	Ser
		35					40					45			

Glu	Leu	Asp	Glu	Glu	Phe	Asp	Ser	Leu	Tyr	Ser	Ile	Leu	Asp	Glu	Val
	50				55						60				

Lys	Glu	Ser	Met	Ile	Asn	Cys	Ile	Lys	Gln	Glu	Gln	Ala	Arg	Lys	Ser
65					70					75				80	

Gln	Glu	Leu	Gln	Ser	Gln	Ile	Ser	Gln	Cys	Asn	Asn	Ala	Leu	Glu	Asn
			85						90					95	

Ser	Glu	Glu	Leu	Leu	Glu	Phe	Ala	Thr	Arg	Ser	Leu	Asp	Ile	Lys	Glu
			100					105					110		

Pro	Glu	Glu	Phe	Ser	Lys	Ala	Ala	Arg	Gln	Ile	Lys	Asp	Arg	Val	Thr
		115					120					125			

Met	Ala	Ser	Ala	Phe	Arg	Leu	Ser	Leu	Lys	Pro	Lys	Val	Ser	Asp	Asn
	130					135					140				

Met	Thr	His	Leu	Met	Val	Asp	Phe	Ser	Gln	Glu	Arg	Gln	Met	Leu	Gln
145					150					155				160	

Thr	Leu	Lys	Phe	Phe	Ala	Ser	Pro	Gln	Xaa	Ser	Xaa	Ile	Asp	Pro	Val
			165						170					175	

Xaa	Ile	Val	Trp	Val	Gly	Xaa	Ile	Thr	Ser	Cys	Xaa
		180					185				

4714

<210> 5278

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5278

Phe Lys Ala Ile Asp Asp Leu Tyr Val Gln Ile Lys Glu Lys His Val
1 5 10 15

Trp Glu Lys Asp Cys His Phe Tyr Val Asn Xaa Lys Val Leu Ser Glu
20 25 30

Leu Tyr Leu Lys Lys Arg Arg Phe Tyr Lys Ser Lys Glu Ser Leu Asn
35 40 45

Thr Met Asn Lys Gly
50

<210> 5279

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5279

Ile Ile Tyr Ile Phe Leu Lys Pro Glu Leu Lys Met Leu Gln Ala Thr
1 5 10 15

Gly Tyr Ser Phe Ile Ser Gly Ser Leu Thr Val Val Ser Leu Gly Gln
20 25 30

Ala Ile Ser Leu Lys Glu Lys Leu Ile Met Tyr Val Gly Cys Gln Asp
35 40 45

His Cys Leu Glu Ser Lys Cys Asp Phe Tyr Phe
50 55

<210> 5280

<211> 84

<212> PRT

<213> Homo sapiens

4715

<400> 5280

Asn Leu Ser Val Ala Leu Cys Leu Cys Ser Pro Gln Arg Lys Val Thr
 1 5 10 15
 Arg Arg Gly Val Gln Phe Pro Arg Pro Gly Pro Tyr Arg Pro Pro Thr
 20 25 30
 Gly Ala Pro Leu Cys Cys Tyr Ser Phe Cys Gln Leu Glu Ala Asp Gly
 35 40 45
 Asp Gln Ala Leu Glu Lys Ala Arg Pro Glu Asp Gly Arg Phe Leu Ser
 50 55 60
 Gly Gly Glu Leu Cys Leu Thr Asp Leu Asn Ile His Ser Val Leu Leu
 65 70 75 80
 Cys Glu Asn Lys

<210> 5281

<211> 114

<212> PRT

<213> Homo sapiens

<400> 5281

Ser Lys Gly Ile Leu Val Phe Asn Leu Asp Arg Leu Arg Cys Gln Glu
 1 5 10 15
 Lys Leu Gln Ser Gln Val Ser Arg Gln Pro Pro Gly Trp Ser Leu Ala
 20 25 30
 Pro Pro Pro Pro Pro Leu Pro Thr Phe Ser Asn Val Leu His Ala Gly
 35 40 45
 Ser Trp Gly Val Trp Gly Lys Gly Leu Pro Ala Ser Phe Arg Arg Leu
 50 55 60
 Arg Phe Gly Gly Lys Ile Asn Leu Gly Asp His Pro Gly Arg Gly Ala
 65 70 75 80
 Ser Val Asp Arg Trp Glu Glu Lys Lys Thr Ser Tyr Leu Gly Gly Gly
 85 90 95
 Thr Ser Arg Phe Leu Ile Leu Ser Phe Phe Val Ala Pro Pro His Cys
 100 105 110
 Pro Phe

4717

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5284

Lys	Thr	Tyr	Lys	Ile	Gln	Arg	Ser	Tyr	Arg	Ser	Cys	Ala	Leu	Tyr	Asn
1				5					10					15	

Val	Ile	Ile	Val	Thr	Lys	Gly	Leu	Ser	Thr	Trp	Lys	Phe	Leu	Asn	Asp
			20					25					30		

Leu	Leu	Asn	Asn	Ser	Phe	Lys	Gly	Glu	Ile	Lys	Ile	Asn	Cys	Lys	Leu
		35					40					45			

Phe	Arg	Ile	Asn	Lys	Asn	Phe	Ser	Lys	Ala	Glu	Glu	Phe	Tyr	Xaa	Arg
	50					55					60				

Gly	Val	Arg	Gly	Asn	Cys	Ile	Asp	Phe	Xaa	Leu	Leu	Xaa	Xaa	Glu	Glu
65					70					75				80	

4718

Arg Lys Xaa Lys Glu Xaa Ile Lys Xaa Phe Lys Ser
 85 90

<210> 5285

<211> 557

<212> PRT

<213> Homo sapiens

<400> 5285

Arg Ala Cys Ala Leu Val Arg Ser Arg Arg Trp Gly Pro Asn Gln Pro
 1 5 10 15

Arg Leu Arg Gly Pro Gln Ser Arg Thr Lys Thr Glu Gly Gly Ala Ala
 20 25 30

Ser Gly Leu Arg Arg Leu His Thr Glu Arg Ala Pro Gly Pro Glu Gly
 35 40 45

Ala Met Leu Trp Phe Gln Gly Ala Ile Pro Ala Ala Ile Ala Thr Ala
 50 55 60

Lys Arg Ser Gly Ala Val Phe Val Val Phe Val Ala Gly Asp Asp Glu
 65 70 75 80

Gln Ser Thr Gln Met Ala Ala Ser Trp Glu Asp Asp Lys Val Thr Glu
 85 90 95

Ala Ser Ser Asn Ser Phe Val Ala Ile Lys Ile Asp Thr Lys Ser Glu
 100 105 110

Ala Cys Leu Gln Phe Ser Gln Ile Tyr Pro Val Val Cys Val Pro Ser
 115 120 125

Ser Phe Phe Ile Gly Asp Ser Gly Ile Pro Leu Glu Val Ile Ala Gly
 130 135 140

Ser Val Ser Ala Asp Glu Leu Val Thr Arg Ile His Lys Val Arg Gln
 145 150 155 160

Met His Leu Leu Lys Ser Glu Thr Ser Val Ala Asn Gly Ser Gln Ser
 165 170 175

Glu Ser Ser Val Ser Thr Pro Ser Ala Ser Phe Glu Pro Asn Asn Thr
 180 185 190

Cys Glu Asn Ser Gln Ser Arg Asn Ala Glu Leu Cys Glu Ile Pro Pro
 195 200 205

4720

Phe Leu Phe Ser Asn Pro Pro Pro Thr Gln Thr Ser Val Arg Val Thr
 485 490 495

Ser Ser Glu Pro Pro Asn Pro Ala Ser Ser Ser Lys Ser Glu Lys Arg
 500 505 510

Glu Pro Val Arg Lys Arg Val Leu Glu Lys Arg Gly Asp Asp Phe Lys
 515 520 525

Lys Glu Gly Lys Ile Tyr Arg Leu Arg Thr Gln Asp Asp Gly Glu Asp
 530 535 540

Glu Asn Asn Thr Trp Asn Gly Asn Ser Thr Gln Gln Met
 545 550 555

<210> 5286

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5286

Asn Asp Gln Asn Pro Glu Ser Gln Trp Ser Asn Asn Lys His Thr Gln
 1 5 10 15

Ile Asp Cys Leu Ile Asn Ser Phe Xaa Leu Val Phe Lys Ser Asn Thr
 20 25 30

Phe Phe Lys Ser Pro Leu Xaa Lys Met Ile Ile
 35 40

<210> 5287

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4721

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5287

Thr	Gly	Trp	Xaa	Xaa	Cys	Pro	Xaa	Pro	Gly	Pro	Gly	Arg	Arg	Thr	Met
1				5					10					15	

Ser	Arg	Gln	Lys	Glu	Thr	Leu	Gln	Ser	Ala	Phe	Pro	Ser	Met	Cys	Ala
			20					25					30		

Leu	Cys	Pro	Ser	Glu	Pro	Ala	Asp	Xaa	Arg	Gly	Gly	Lys	Asp	Thr	Val
		35					40					45			

Leu	Asn	Glu	Gln	Asn	Leu	Gln	Asp	Thr	Gln	Ser	Cys	Leu	Phe	Ala	Thr
	50					55					60				

Trp	Pro	Tyr	Ala	Cys	Pro	Val	Phe	Ser	Leu	Lys	Ala	Phe	Thr	His	Ala
65						70				75					80

Arg	Ala	Val	Thr	Trp	Asn	Val	Leu	Ser	Ile	Thr	Pro	Ala	Val	Met	Pro
				85					90					95	

Ser	Thr	Glu	Leu	Asp	Gly	Arg	Pro	Leu	His	Gly	Ser	Leu	Lys	Arg	Ser
			100					105					110		

His	Pro	Ser	Asn	Trp	Val	Cys	His	Arg	His	Thr	Gly	Ser	Cys	Leu	Pro
			115					120					125		

Val	Leu	Pro	Val	Val	Ile	Val	Met	Arg	Ile	Val	Val	Leu	His	Pro	
	130						135					140			

<210> 5288

<211> 48

<212> PRT

4722

<213> Homo sapiens

<400> 5288

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Ser Gly Gln Glu Pro Gly Phe Gln Gln Arg Glu Leu Glu Asn Glu Pro
 1           5           10           15

Arg Gly Ala Gly Ala Gly Gly Val Gly Glu Cys Gln Arg Ala Gly Met
           20           25           30

Asn Trp Gln Val Ala Trp Arg Gly Gly Leu Val Pro Lys Pro Val Leu
 35           40           45

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<210> 5289

<211> 232

<212> PRT

<213> Homo sapiens

<400> 5289

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Pro Ala Ser Ala Thr Thr Arg Thr Gly Pro Arg Pro Gly Pro Ala Pro
 1           5           10           15

Arg Cys Pro Leu Pro Ala Pro Gly His Ser Cys Thr Gln Ala Pro Pro
           20           25           30

Arg Glu His Thr Ala Val His Thr Arg Glu Lys Gln Gln Leu Ala Ser
           35           40           45

Leu Val Gly Thr Met Leu Ala Tyr Ser Leu Thr Tyr Arg Gln Glu Arg
           50           55           60

Thr Pro Asp Gly Gln Tyr Ile Tyr Arg Leu Glu Pro Asn Val Glu Glu
           65           70           75           80

Leu Cys Arg Phe Pro Glu Leu Pro Ala Arg Lys Pro Leu Thr Tyr Gln
           85           90           95

Thr Lys Gln Leu Ile Ala Arg Glu Ile Glu Val Glu Lys Met Arg Arg
           100           105           110

Ala Glu Ala Ser Ala Arg Val Glu Asn Ser Pro Gln Val Asp Gly Ser
           115           120           125

Pro Pro Gly Leu Glu Gly Leu Leu Gly Gly Ile Gly Glu Lys Gly Val
           130           135           140

His Arg Pro Ala Pro Arg Asn His Glu Gln Arg Leu Glu His Ile Met

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4723

145 150 155 160
 Arg Arg Ala Ala Arg Glu Glu Gln Pro Glu Lys Asp Phe Phe Gly Arg
 165 170 175
 Val Val Val Arg Ser Thr Ala Val Pro Ser Ala Gly Asp Thr Ala Pro
 180 185 190
 Glu Gln Asp Ser Val Glu Arg Arg Met Gly Thr Ala Val Gly Arg Ser
 195 200 205
 Glu Val Trp Phe Arg Phe Asn Glu Gly Val Ser Asn Ala Val Arg Arg
 210 215 220
 Ser Leu Tyr Ile Arg Asp Leu Leu
 225 230

<210> 5290

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5290

Ser Ile Thr Cys His Arg Glu Ser Glu Phe Leu Tyr Cys Leu Pro Ala
 1 5 10 15
 Ala Arg Thr Lys Ser Glu Trp Trp Gly Pro Arg Ser Ser Gln Leu Gly
 20 25 30
 Glu Lys Ala Leu Pro Asp Pro Gly Thr Arg Gly Leu Gly Gln Glu Ala
 35 40 45
 Gly Arg Met Gly Gly Cys Asp His Arg His Thr His Thr Arg Ser Leu
 50 55 60
 Ser Ser Gly Lys Gly Phe Pro Glu Ala Phe Ala His Thr Leu Asn Glu
 65 70 75 80
 Val Phe Ser Cys Gln Ala Lys Pro Pro Glu Glu Lys
 85 90

<210> 5291

<211> 40

<212> PRT

<213> Homo sapiens

<220>

4724

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5291

Thr Ile Lys Cys Leu Leu Leu Tyr Lys Lys Lys Lys Lys Lys Lys
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
20 25 30

Lys Lys Lys Lys Gly Xaa Pro Xaa
35 40

<210> 5292

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5292

Val Glu Asn Leu Gln Arg Asn Asp Gly Cys Lys Trp Thr Cys Lys Pro
1 5 10 15

Lys Leu Gly Ile Gly Glu Val Arg Leu Thr Arg Leu Leu Val Arg Val
20 25 30

Leu Leu Asn Ser Leu Leu Met Arg Arg Cys Leu Asp Lys Tyr Lys Leu
35 40 45

Arg Lys
50

<210> 5293

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

4725

<400> 5293

Lys Pro Leu Ala Lys Xaa Arg Gly Ile Phe Phe Phe Ile Phe Lys Cys
1 5 10 15

Leu Gly Thr Lys Pro Lys Ser Lys Arg Leu Thr Lys His Val Ser Leu
20 25 30

Lys Ala Thr Cys Ile Leu Gln Tyr Asn Ile Lys Leu Phe Asn Leu Arg
35 40 45

Asn Leu Val Leu Leu Ile Cys Thr Phe
50 55

<210> 5294

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5294

Arg Thr Phe Met Lys Arg Trp Asn Cys Ser Tyr Lys Phe Phe Leu Leu
1 5 10 15

Leu Leu Phe Leu Asn Met Pro Trp Asn Asn Ser Thr Ile Phe Ser Pro
20 25 30

Ser Ile Asn Leu Ser Asn Lys Ala
35 40

<210> 5295

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

4726

<400> 5295

Asn Cys Glu Asp Ile Leu Lys Leu Cys Leu Val Tyr Lys Tyr Lys Asp
 1 5 10 15

Phe His Thr Asp Asn Tyr Gln Ile Pro Asn Thr Phe Thr Gly Lys Lys
 20 25 30

Pro Ser Val Lys Xaa Leu Pro Gly Ser Ser Ser Leu Lys Phe Ser Xaa
 35 40 45

Xaa

<210> 5296

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5296

Thr Thr Leu Xaa Arg Arg Ser Ser Leu Leu Asn Tyr Ile His Pro Asp
 1 5 10 15

Cys Gly Asp Asn His Thr Pro Gln Phe Arg Xaa Tyr Tyr Tyr Tyr Gln

4727

	20		25		30										
Ser	Val	Gln	Gly	Leu	Cys	Trp	Leu	Ile	Leu	Phe	Phe	Tyr	Pro	Leu	Tyr
		35					40					45			
His	Tyr	Ser	Pro	Ile	Ser	Ser	Xaa	Thr	Phe	Ile	Ser	Lys	Asn	Leu	Ile
	50					55					60				
Val	Trp	His	Leu	Ser	Leu	Asp	Met	Glu	Cys	Phe	Phe	Xaa	Lys	Xaa	
	65				70					75					

<210> 5297

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5297

Met	Phe	Gly	Leu	Tyr	Leu	Val	Leu	Asp	Pro	Glu	Leu	Pro	Phe	Ser	Lys
1				5					10					15	
Tyr	Leu	Asn	Asp	Tyr	Tyr	Tyr	Phe	Ile	Ser	Leu	Phe	Tyr	Thr	His	Thr
			20					25					30		
Arg	Thr	His	Thr	His	Arg	Glu	Met	Leu	Phe	Met	Arg	Phe	Cys	Ile	Phe
		35					40					45			
His	Ile	Leu	His	Ile	Leu	Tyr	Met	Ile	Asp	Glu					
	50						55								

<210> 5298

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

4728

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5298

Gln Gly Phe Glu Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala
 1 5 10 15

Val His Cys Gly Glu Trp Pro Asp Gln Pro Arg Leu Thr Lys Asp Val
 20 25 30

Ile Cys Phe His Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln
 35 40 45

Leu Asp Leu His Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp
 50 55 60

Asp Ala Lys Leu Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg
 65 70 75 80

Ile Gln Leu Tyr Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val
 85 90 95

His Gln Phe Lys Thr Val Ser Ala Val Cys Xaa Leu Ala Trp Xaa Ile
 100 105 110

Arg Leu Lys Leu Tyr His Ser Glu Glu Asp Xaa Ser Gln Asn Thr Ala
 115 120 125

Thr His Glu Thr Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly
 130 135 140

Pro His Thr Asp Asn Met Ile Cys Ala Val Ser Lys Pro Pro Trp Ile
 145 150 155 160

Leu Phe Phe Gln Ile Asn Phe Ile Leu Asn Met Asn Tyr Ser Arg Leu
 165 170 175

Asn Met Asn Leu Leu His Leu
 180

<210> 5299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4729

<400> 5299

Ile Ser His Phe Trp Glu Gln Thr Pro Ile Lys Val Pro Gly Asp Tyr
1 5 10 15

Leu Gln Trp Xaa Ala Glu Gln Lys Ile Ser Ala Val Leu Ile Ile Val
20 25 30

Val Thr Trp Val Thr Pro Pro Asn Thr Leu Cys Glu Leu Ser Glu Ile
35 40 45

Phe Gly Asn Phe Leu Met Tyr Ile Leu Glu Ile Leu Asn Val Gln Ile
50 55 60

Trp Ser Ser Ile
65

<210> 5300

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5300

Trp Gln Ser Val His Arg Ser Trp Leu Leu Ser Leu Leu Asn Leu Cys
1 5 10 15

Lys Arg Ser Leu Ser Asp Glu Gly Arg Ile Met Val Leu Leu Ala Leu
20 25 30

Ala Phe Pro Phe Cys Asp Leu Lys Ala Ser Ser Leu Arg Pro His Ser
35 40 45

Met Ala Pro Val Pro Tyr Ser His Ser Cys Leu Leu Lys Leu Pro Thr
50 55 60

Leu Leu Asn Cys Phe Trp Gly Glu Glu His Phe Phe Leu Lys Gln Asn
65 70 75 80

Arg Tyr Met Lys Gln Tyr Thr Gly Ile Asn Thr Asn Ile
85 90

<210> 5301

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4730

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5301

Phe	Ser	Pro	Lys	Ala	Val	Leu	Leu	Arg	Leu	Cys	Phe	Thr	Ser	Ile	Tyr
1				5					10					15	

Lys	Leu	Tyr	Val	Lys	Cys	Cys	His	Lys	Glu	Val	Ser	Glu	Ala	Val	Gly
			20					25					30		

His	Thr	Gln	Gly	Arg	Ala	Glu	Lys	Tyr	Leu	Val	Val	Cys	Xaa	Xaa	Xaa
		35					40					45			

Lys	Pro	Trp	Met	Ala	Ala	Ala	Thr	Xaa	Pro	Ala	Tyr	Pro	Phe	Thr	Ala
	50					55					60				

Xaa	Val	Tyr	Ser	Leu	Arg	Xaa	Leu	Thr	Thr	Arg
65					70					75

<210> 5302

<211> 82

<212> PRT

<213> Homo sapiens

4731

<400> 5302

Glu Leu Pro Ser Lys Arg Gln Ala Phe Val Ile Ser Met Glu Phe Glu
 1 5 10 15
 Gly Ser Trp Thr Ile Cys Lys Asp Ile Leu Thr Cys Ser Leu Arg Ser
 20 25 30
 Leu Ser Ser Ser Lys Arg Met Ala Arg Val Cys Gly Ile Ile Leu Ser
 35 40 45
 Thr Tyr Cys Cys Phe Phe Val Val Leu Leu Met Gln Val Ile Ile Tyr
 50 55 60
 Phe Leu Gly Val Ile Trp Arg Lys Ser Met Arg Gln Ala Cys Phe Ser
 65 70 75 80
 Pro Val

<210> 5303

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5303

Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr
 1 5 10 15
 Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr
 20 25 30
 Tyr Leu Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu
 35 40 45
 Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
 50 55 60
 Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp
 65 70 75 80
 Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp
 85 90 95
 Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr

4732

100	105	110
Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu		
115	120	125
Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr		
130	135	140
Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro		
145	150	155
Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr Thr		
165	170	175
Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu Lys		
180	185	190
Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys Leu		
195	200	205
Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Xaa Gln Trp Asn Trp		
210	215	220
Ile Ser Thr Lys His Ile Trp Arg Arg Leu Gln Lys Glu Arg Glu Pro		
225	230	235
Lys Cys Leu Gly Ala Leu Lys Gly Gly Trp Ile Arg Leu Ser Leu Cys		
245	250	255
Ser Pro Gly Ala Lys Gly Arg Val Leu Pro Glu Thr Gly Pro Glu Asp		
260	265	270

<210> 5304

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5304

Phe Leu Gly Ala Pro Ser Ile Cys Ala Gly Asp Glu Glu Gly Thr Glu
1 5 10 15

Ile Asp Thr Leu Gln Phe Arg Leu Gln Val Arg Cys Thr Arg Glu Pro
20 25 30

Pro Cys Cys
35

4733

<210> 5305

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5305

Asp	Phe	Leu	Lys	Gly	Ser	Lys	Ala	Phe	Ala	Cys	Tyr	Leu	Cys	Phe	Phe
1				5					10					15	

Ser	Pro	Lys	Pro	Lys	Gln	Lys	Ile	Met	Pro	Leu	Cys	Gln	Thr	Phe	Leu
			20					25					30		

Leu	Gly	Thr	Ser	Thr	Xaa	Ser	Gln	Leu	Xaa	Lys	Tyr	Asn	Val	Tyr	Ile
		35					40					45			

Ala	Gln	Phe	Tyr	Asn	Leu	Ser	Met	Ala	Gln	Ile	Leu	Glu	Thr	Tyr	Lys
	50					55					60				

Leu	Asp	Asp	His	Arg	Asp	Ile	Val	Val	Asn	Ile	Trp	Ala	Trp	Asn	Gln
65					70					75					80

Arg	Thr	Leu	Gly	Ser	Asn	Leu	Ser	Phe	Lys	Ser	Lys	Lys	Leu	Asn	Ser
				85					90					95	

Leu Ala Glu

<210> 5306

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

4734

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5306

Arg	Phe	Asn	Phe	Pro	Ala	Ser	Pro	Glu	Ala	Arg	Tyr	Gly	His	Asn	Thr
1				5				10					15		

Lys	Phe	Cys	Pro	Arg	Arg	Leu	Ser	Lys	Ile	Val	Trp	Asp	Phe	Gln	Glu
			20					25					30		

Met	Phe	Leu	Lys	Ser	Xaa	Ala	Gly	Leu	Ser	Ser	Cys	Leu	Leu	Pro	Leu
		35					40					45			

Cys	Trp	Leu	Glu	Xaa	Lys	Asp	His	Gly	Arg	Arg	Pro	Ser	Ser	His	Pro
	50					55					60				

Gly	Arg
65	

<210> 5307

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5307

Val	Leu	Tyr	His	Cys	Ala	Ser	Arg	Tyr	Arg	Arg	Ala	Arg	Gln	Thr
1				5				10					15	

Cys	Xaa	Pro	Ser	Tyr	Thr	Arg	Ser	Ala	Asp	Leu	Pro	Ser	Arg	Thr	Pro
			20					25					30		

Pro	Val	Glu	Asp	Leu	Leu	Glu	Leu	Ser	Arg	Ala	Phe	Trp	Val	Gly	Ala
		35					40					45			

Asp	Gly	Gly	Gly	Arg	Val	Arg	Val	Leu	Gly	Gly	Thr	Glu	Ala	His	Glu
	50					55					60				

Asp	Gly	Ile	Pro	Pro	Glu	Ser	Met	Asp	His	Tyr	Ala	Asp	Gly	His	Arg
65					70					75					80

Pro	Gln	His	Cys	His	Leu	Gly	Tyr	Arg	Cys	His	Gly	Arg	Pro	Gln	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4735

[illegible]

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<210> 5308
<211> 77
<212> PRT
<213> Homo sapiens
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<400> 5308
Met Lys Ile Phe Lys Leu Glu Leu Glu Glu Gly Val Val Glu Glu Gln
  1             5             10             15

Gly Val Leu Leu His Pro Glu Val Val Gly Leu Leu Leu Pro Ala Val
      20             25             30

Glu Pro Val Ile His Arg Glu Glu Val Leu Asp Gln Gln Glu Ala Phe
      35             40             45

Glu Val Arg Glu Glu Val Pro Asn Asn Lys Glu Ala Ala Gly Arg Glu
      50             55             60

Lys Gly Ser Arg Pro Val Leu Thr Cys Tyr Asn Glu Asp
      65             70             75

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<210> 5309
<211> 704
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE

4736

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5309

Xaa	Gly	Xaa	Lys	Gly	Arg	Glu	Gly	Lys	Gly	Gly	Ser	Arg	Gly	Gly	Ala
1				5					10					15	
Arg	Ala	His	Arg	Glu	Arg	Ala	Arg	Arg	Arg	Val	Glu	Leu	Asp	Arg	Val
			20					25					30		
Cys	Cys	Gln	Arg	Arg	Glu	Leu	Arg	Pro	Pro	Phe	Tyr	Asn	Ser	Ser	Thr
		35					40					45			
Arg	Ala	Gly	His	Arg	Glu	Gln	Arg	Ala	Arg	Val	Ser	Arg	Asn	Pro	Ile
	50					55					60				
Pro	Ser	Asp	Arg	Ile	Ser	Pro	Pro	Gln	Pro	Asn	Gly	Glu	Ile	Ser	Gly
65					70					75					80
Asn	Met	Ala	Thr	Glu	His	Val	Asn	Gly	Asn	Gly	Thr	Glu	Glu	Pro	Met
				85				90						95	
Asp	Thr	Thr	Ser	Ala	Val	Ile	His	Ser	Glu	Asn	Phe	Gln	Thr	Leu	Leu
			100					105					110		
Asp	Ala	Gly	Leu	Pro	Gln	Lys	Val	Ala	Glu	Lys	Leu	Asp	Glu	Ile	Tyr
	115					120						125			
Val	Ala	Gly	Leu	Val	Ala	His	Ser	Asp	Leu	Asp	Glu	Arg	Ala	Ile	Glu
	130					135					140				
Ala	Leu	Lys	Glu	Phe	Asn	Glu	Asp	Gly	Ala	Leu	Ala	Val	Leu	Gln	Gln
145					150					155				160	
Phe	Lys	Asp	Ser	Asp	Leu	Ser	His	Val	Gln	Asn	Lys	Ser	Ala	Phe	Leu
				165					170					175	
Cys	Gly	Val	Met	Lys	Thr	Tyr	Arg	Gln	Arg	Glu	Lys	Gln	Gly	Thr	Lys
			180					185					190		
Val	Ala	Asp	Ser	Ser	Lys	Gly	Pro	Asp	Glu	Ala	Lys	Ile	Lys	Ala	Leu
	195						200					205			
Leu	Glu	Arg	Thr	Gly	Tyr	Thr	Leu	Asp	Val	Thr	Thr	Gly	Gln	Arg	Lys
	210					215						220			
Tyr	Gly	Gly	Pro	Pro	Pro	Asp	Ser	Val	Tyr	Ser	Gly	Gln	Gln	Pro	Ser
225					230					235				240	
Val	Gly	Thr	Glu	Ile	Phe	Val	Gly	Lys	Ile	Pro	Arg	Asp	Leu	Phe	Glu
			245					250					255		

4737

Asp Glu Leu Val Pro Leu Phe Glu Lys Ala Gly Pro Ile Trp Asp Leu
 260 265 270
 Arg Leu Met Met Asp Pro Leu Thr Gly Leu Asn Arg Gly Tyr Ala Phe
 275 280 285
 Val Thr Phe Cys Thr Lys Glu Ala Ala Gln Glu Ala Val Lys Leu Tyr
 290 295 300
 Asn Asn His Glu Ile Arg Ser Gly Lys His Ile Gly Val Cys Ile Ser
 305 310 315 320
 Val Ala Asn Asn Arg Leu Phe Val Gly Ser Ile Pro Lys Ser Lys Thr
 325 330 335
 Lys Glu Gln Ile Leu Glu Glu Phe Ser Lys Val Thr Glu Gly Leu Thr
 340 345 350
 Asp Val Ile Leu Tyr His Gln Pro Asp Asp Lys Lys Lys Asn Arg Gly
 355 360 365
 Phe Cys Phe Leu Glu Tyr Glu Asp His Lys Thr Ala Ala Gln Ala Arg
 370 375 380
 Arg Arg Leu Met Ser Gly Lys Val Lys Val Trp Gly Asn Val Gly Thr
 385 390 395 400
 Val Glu Trp Ala Asp Pro Ile Glu Asp Pro Asp Pro Glu Val Met Ala
 405 410 415
 Lys Val Lys Val Leu Phe Val Arg Asn Leu Ala Asn Thr Val Thr Glu
 420 425 430
 Glu Ile Leu Glu Lys Ala Phe Ser Gln Phe Gly Lys Leu Glu Arg Val
 435 440 445
 Lys Lys Leu Lys Asp Tyr Ala Phe Ile His Phe Asp Glu Arg Asp Gly
 450 455 460
 Ala Val Lys Ala Met Glu Glu Met Asn Gly Lys Asp Leu Glu Gly Glu
 465 470 475 480
 Asn Ile Glu Ile Val Phe Ala Lys Pro Pro Asp Gln Lys Arg Lys Glu
 485 490 495
 Arg Lys Ala Gln Arg Gln Ala Ala Lys Asn Gln Met Tyr Asp Asp Tyr
 500 505 510
 Tyr Tyr Tyr Gly Pro Pro His Met Pro Pro Pro Thr Arg Gly Arg Gly
 515 520 525

4738

Arg Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr
 530 535 540
 Glu Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly
 545 550 555 560
 Gly Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala
 565 570 575
 Arg Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly
 580 585 590
 Arg Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly
 595 600 605
 Gly Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln
 610 615 620
 Gln Gln Arg Gly Arg Gly Val Arg Gly Ala Arg Gly Gly Arg Gly Gly
 625 630 635 640
 Asn Val Gly Gly Lys Arg Lys Ala Asp Gly Tyr Asn Gln Pro Asp Ser
 645 650 655
 Lys Arg Arg Gln Thr Asn Asn Gln Asn Trp Gly Ser Gln Pro Ile Ala
 660 665 670
 Gln Gln Pro Leu Gln Gly Gly Asp His Ser Gly Asn Tyr Gly Tyr Lys
 675 680 685
 Ser Glu Asn Gln Glu Phe Tyr Gln Asp Thr Phe Gly Gln Gln Trp Lys
 690 695 700

<210> 5310

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4739

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5310

Asp Tyr Ala Leu Ser Asn Thr Thr Xaa Tyr Arg Glu Lys Leu Val Arg
 1 5 10 15

Leu Gln Val Pro Val Arg Xaa Phe Pro Gly Arg Pro Thr Arg Pro Trp
 20 25 30

Glu Thr Glu Gln Asp Ser Val Ser Lys Lys Asn Lys Asn Lys Asn Lys
 35 40 45

Lys Thr Glu Gly Gln Ala Gln Val Lys Tyr Pro Ile Phe Ile Leu Ser
 50 55 60

Arg Gly Ile Lys Lys
 65

<210> 5311

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5311

Cys Ser Asn Cys Pro Lys Leu Trp Pro Lys Lys Ala Pro Ser Asn Trp
 1 5 10 15

Leu Leu Cys Pro Phe Asp Met Ala His His Ser Leu Asn Thr Phe Tyr
 20 25 30

Ile Trp His Asn Asn Val Leu His Thr His Leu Val Phe Phe Leu Pro
 35 40 45

His Leu Leu Asn Gln Pro Phe Ser Arg Gly Ser Phe Leu Ile Trp Leu
 50 55 60

Leu Leu Cys Trp Asn Ser Trp Tyr His Leu Arg Thr Leu Arg Arg Gln
 65 70 75 80

Ala Asn Gln Ala Asn Lys Leu Ser Met Met Leu Leu Arg Val Lys Gln
 85 90 95

Ser Pro Gly Thr Lys Leu Cys His Gly Asp Ser Glu Leu Thr Ser Gly
 100 105 110

Leu Leu Ala Thr
 115

4740

<210> 5312

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5312

Val Thr Ile Ile Ile Ser Ala Ser Pro Thr Gln Val Thr Leu Leu Gly

1

5

10

15

Ser Pro Val Cys Pro His Leu Glu Val Thr Ala Xaa Pro Trp Arg Trp

20

25

30

Asp Ser Ile Leu Ser Pro Gly Cys Leu Pro Pro Val Arg Arg Pro Val

35

40

45

Ser Trp Cys Val Thr Ser Gly Arg Cys Gln Ala Cys Phe Pro Pro Ser

50

55

60

Phe Pro Pro Gln Arg Ala Arg Thr Asn His Gln Cys His His Thr Ser

65

70

75

80

Xaa Trp Pro Glu Asn Phe Met Asp Xaa Phe Thr Cys Ala Ile Val Asn

85

90

95

Leu Arg Arg Pro

100

<210> 5313

<211> 63

<212> PRT

<213> Homo sapiens

4741

<400> 5313

Val Pro Gly Glu Ala Glu Leu Glu Arg Ala Val Glu Ala Phe Pro Leu
 1 5 10 15

Leu Val Glu Ser Tyr Ala Pro His Ser Gly Ser Glu Leu Gln Leu Leu
 20 25 30

Ser Arg Thr Thr Thr Glu Ser Gly Ile Arg Val Lys Asn Thr Ser Pro
 35 40 45

Thr Pro Pro Leu Leu His Pro Arg Arg Phe His Val Phe Asn Leu
 50 55 60

<210> 5314

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5314

Asp Ser Gly Ser Cys Gly Pro Asp Pro Lys Cys Gly Asp Leu Arg Arg
 1 5 10 15

Ile Lys Gly Leu Cys Lys Phe Ala Asn Met Phe Thr Leu Ser Gln Thr
 20 25 30

Ser Arg Ala Trp Phe Ile Asp Arg Ala Arg Gln Ala Arg Glu Glu Arg
 35 40 45

Leu Val Gln Lys Glu Arg Glu Arg Ala Ala Val Val Ile Gln Ala His
 50 55 60

Val Arg Ser Phe Leu Cys Arg Ser Arg Leu Gln Arg Asp Ile Arg Arg
 65 70 75 80

Glu Ile Asp Asp Phe Phe Lys Ala Asp Asp Pro Glu Ser Thr Lys Arg
 85 90 95

Ser Ala Leu Cys Ile Phe Lys Ile Ala Arg Lys Leu Leu Phe Leu Phe
 100 105 110

Arg Ile Lys Glu Asp Asn Glu Arg Phe Glu Lys Leu Cys Arg Ser Ile
 115 120 125

Leu Ser Ser Met Asp Ala Glu Asn Glu Pro Lys Val Trp Tyr Val Ser
 130 135 140

Leu Ala Cys Ser Lys Asp Leu Thr Leu Leu Trp Ile Gln Gln Ile Lys
 145 150 155 160

4742

Asn Ile Leu Trp Tyr Cys Cys Asp Phe Leu Lys Gln Leu Lys Pro Glu
 165 170 175

Ile Leu Gln Asp Ser Arg Leu Ile Thr Leu Tyr Leu Thr Met Leu Val
 180 185 190

Thr Phe Thr Asp Thr Ser Thr Trp Lys Ile Leu Arg Gly Lys Gly Glu
 195 200 205

Ser Leu Arg Pro Ala Met Asn His Ile Cys Ala Asn Ile Met Gly His
 210 215 220

Leu Asn Gln His Gly Phe Tyr Ser Val Leu Gln Cys Cys Asp Gly Leu
 225 230 235 240

Phe Pro Asp Leu Val Ser Tyr Ala Pro His Asn Asn Pro Val Arg Trp
 245 250 255

Ser Val Gly Arg Ser Trp Tyr Asp Trp Gln Leu Ser Arg
 260 265

<210> 5315

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5315

Gly Gln Ala Arg Val Leu Pro Leu Met Gln Ile Pro Thr Arg Glu Met
 1 5 10 15

Ser Arg Gly Arg Leu Leu Ser Glu Xaa Leu Gln Pro Lys Gly Cys Ser
 20 25 30

Ile Ala Ile Pro Phe Pro Trp Ser Cys Gln Leu Phe Ser Gly Gln Gly
 35 40 45

Pro Trp Gly Arg Trp Ser Lys Pro Ser Pro Gln Ala Gly Gly Leu Glu
 50 55 60

4743

Ser Thr Arg Lys Gly Ser Thr Trp Phe Tyr Glu Gly Ile Leu Gly Gly
 65 70 75 80

Ala Thr Pro His Leu Pro Pro Thr Tyr Thr Phe Cys Cys Xaa Lys Cys
 85 90 95

Leu Ile Pro His Asp Val Ser Leu Ser Phe Gln Gln Lys Lys Val Lys
 100 105 110

Leu Trp Val Val Glu Pro
 115

<210> 5316

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5316

Ala Glu Arg Ser Leu Lys Ile Leu Pro Leu Leu Lys Lys Leu Leu Lys
 1 5 10 15

Ser Asn Asp His Glu Cys Met Leu Gly His Leu Cys Met Tyr Ile Gln
 20 25 30

Ile Asp Arg Met Asp Phe Xaa Lys Asn Gly Ile Thr Ile Val Leu Gln
 35 40 45

Trp Xaa Lys Lys Tyr Gly Ile Leu Pro His Ser Leu Asn Leu Gly Gly
 50 55 60

Ile Gln Lys Ala Leu Leu Lys Pro Ser Asn Lys Leu Asp Gln Leu Ser
 65 70 75 80

Leu Asp Leu

<210> 5317

4744

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5317

Leu	Leu	Arg	Arg	Gly	Phe	Ile	Xaa	Gly	Phe	Tyr	Asn	Ala	Asn	Val	Val
1				5				10						15	

Xaa	Leu	Arg	Xaa	Lys	Asn	Trp	Gln	Leu	Glu	Ser	Leu	Ser	Leu	Ile	Ser
			20				25						30		

Lys	Gly	Asn	Pro	Asp	Phe	Phe	Val	Asn	Tyr	Val	Arg	Gln	Val	Xaa	Tyr
		35					40					45			

Gly	Phe	Leu	Tyr	Glu	Leu	Gln	Phe	Thr	Val	His	Gln	Ile	Leu	Val	Ser
	50					55					60				

Glu	Glu	Leu	Ile	Tyr	Val	Lys	Cys	Leu	Lys	Ile	Tyr	Thr
65					70					75		

<210> 5318

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

4745

<400> 5318

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Ser Pro Gly Gly Arg Ser Ser Leu Leu Leu Ser Pro Val Val Ser Arg
 1              5              10              15

Thr Ser Cys Pro Asp Leu Pro Trp Ser Cys Leu Ser Asp Ser Leu His
          20              25              30

Gln Gly His Pro Thr Ala Ser Lys Xaa Ala Phe Pro Trp Thr Asn Ala
          35              40              45

Thr Ala Thr Phe Met Cys Glu Ala Lys Ile Thr Leu Gln Gln Ser Gln
 50              55              60

Tyr
65

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<210> 5319

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5319

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Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala
 1              5              10              15

His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln
          20              25              30

Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser
          35              40              45

Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu
 50              55              60

Gln Arg Phe Gly His Gly Cys Glu Val Pro Arg Cys Trp Leu Gln Ala
 65              70              75              80

Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu

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4746

85 90 95
 Gly Glu Gly Gln Glu Gly Glu Gly Gln Glu Glu Gly Gly Ser Pro Leu
 100 105 110
 Lys Gly Pro Gly Gln Gly Ser Leu Asn Leu Pro Leu Cys Leu Gln Lys
 115 120 125
 Lys Lys Xaa Xaa
 130

<210> 5320
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 5320
 Leu Ser Ser Ile Cys Leu Asn Ile Ser Ser Leu Gly Asp Ser Ser Pro
 1 5 10 15
 Leu Cys Leu Val Ala Asn Cys Asn Ser Pro Cys Gly Pro Thr Glu Tyr
 20 25 30
 His Ser Thr Ala Phe Leu Asp Ile Tyr Asp Val Leu Thr Ile Gln Val
 35 40 45

<210> 5321
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 5321
 Lys Glu Trp His Cys Phe Tyr Ile Phe Ala His Leu Phe His Ala Arg
 1 5 10 15
 Leu Asn Arg Asn Ser Tyr Leu Leu Val Arg Val Val Cys Cys Asn Ile
 20 25 30
 Thr Tyr His Val Thr Ser Gly Lys Pro His Cys Met His Val Arg Glu
 35 40 45
 Gly Glu Ser His Val Arg Val Val Ile Lys Ile Val Leu Thr Leu
 50 55 60

4747

<210> 5322

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5322

Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
 1 5 10 15

Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
 20 25 30

Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Phe Pro
 35 40 45

Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
 50 55 60

Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
 65 70 75 80

Thr Ser Pro Ser Leu Lys Gly
 85

<210> 5323

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5323

Ile Gly Leu Lys Ala Asn Ser Gln Gly Ala Thr Asp Pro Phe His Asn
 1 5 10 15

Arg Met Leu Pro Val Asn Ser Leu Ser Ile Leu Leu Cys Pro Val Ser
 20 25 30

Lys Lys Lys Lys Lys Ser Arg Arg Val Ser Gln Ser Gly His Leu Ile
 35 40 45

Arg Asp Leu Ala Gln Glu Glu Glu Met Gly Arg Glu Ser Asp Gly Glu
 50 55 60

Gln His Ser Pro Trp Glu Pro Glu Val Gly Gly His Arg Ala Pro
 65 70 75

4748

<210> 5324

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5324

Glu Pro Ala Ala Thr Ala Ala Glu Thr Xaa Ser Cys Val Leu Cys Gly
 1 5 10 15

Leu Pro Ala Ala Gly Lys Ser Thr Phe Ala Arg Ala Leu Ala His Arg
 20 25 30

Leu Gln Gln Glu Gln Gly Trp Ala Ile Gly Val Val Ala Tyr Asp Asp
 35 40 45

Val Met Pro Asp Ala Phe Leu Ala Gly Ala Arg Ala Arg Pro Ala His
 50 55 60

Ser Gln Trp Lys Leu Leu Arg Gln Glu Leu Leu Lys Tyr Leu Glu Tyr
 65 70 75 80

Phe Leu Met Ala Val Ile Asn Gly Cys Gln Met Ser Val Pro Pro Asn
 85 90 95

Arg Thr

<210> 5325

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4749

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5325

Gly	Lys	Gly	Xaa	Xaa	Leu	Pro	Ile	Xaa	Xaa	Ser	Xaa	Thr	Phe	Met	Pro
1				5					10					15	

Asn	Gly	Cys	Cys	Lys	Thr	Cys	Thr	Pro	Arg	Asn	Glu	Thr	Arg	Val	Pro
			20					25					30		

Cys	Ser	Thr	Val	Pro	Val	Thr	Thr	Glu	Val	Ser	Tyr	Ala	Gly	Cys	Thr
		35					40					45			

Lys	Thr	Val	Leu	Met	Asn	His	Cys	Ser	Gly	Ser	Cys	Gly	Thr	Phe	Val
	50					55					60				

Met	Tyr	Ser	Ala	Lys	Ala	Gln	Ala	Leu	Asp	His	Ser	Cys	Ser	Cys	Cys
65					70					75					80

Lys	Glu	Glu	Lys	Thr	Ser	Gln	Arg	Glu	Val	Val	Leu	Ser	Cys	Pro	Asn
			85						90					95	

Gly	Gly	Ser	Leu	Thr	His	Thr	Tyr	Thr	His	Ile	Glu	Ser	Cys	Gln	Cys
			100					105					110		

Gln	Asp	Thr	Val	Cys	Gly	Leu	Pro	Thr	Gly	Thr	Ser	Arg	Arg	Ala	Arg
		115					120					125			

Arg	Ser	Pro	Arg	His	Leu	Gly	Ser	Val	Ser	Gly	Val	Gly	Thr	Ala	Pro
	130					135					140				

Ser	Leu	Pro	Ser	Thr	Ala	Leu	Pro	Pro	Pro	Asp	Pro	Leu	Ser	Leu	Leu
145					150					155					160

Lys	Leu	Gly	Phe	Leu	Xaa	Ser	Asp	Ile	Tyr	Cys	Leu	Ser	Phe	Cys	Ser
				165					170					175	

4750

Val Leu

<210> 5326

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5326

Arg	Gly	Gly	Gln	Thr	Xaa	Xaa	Pro	Ala	Gly	Ala	Arg	Xaa	Gly	Thr	Val
1				5					10					15	

Leu	Asn	Pro	Gly	Glu	Thr	Ala	Lys	Trp	Lys	Thr	Tyr	Arg	Val	Cys	Ala
			20					25					30		

Leu	Pro	Asp	Phe	Thr	Val	Leu	Leu	Gly	His	Phe	Thr	Tyr	Val	Pro	Ala
		35					40					45			

Val Ile Asn

50

<210> 5327

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5327

Pro	Gln	Leu	Tyr	Lys	Leu	Phe	Phe	Lys	Thr	Lys	Tyr	Phe	Gln	Val	Tyr
1				5					10					15	

Leu Leu Thr Lys Asn Ile Ile Met Val Lys Thr Phe Leu Phe Asn Arg

4751

	20		25		30
Leu	Val	Ile	Phe	Leu	Thr
	35			Ser	Ile
			40	Phe	Phe
				Asn	Leu
					45
				Ser	Leu
				His	Lys

Lys Asn
50

<210> 5328

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5328

Ser	Val	Tyr	Leu	Lys	Arg	Asn	Leu	Ile	Phe	Gln	Gly	Ser	Asn	Val	Tyr
1				5					10					15	

Val	Phe	Gln	Val	Val	Leu	Pro	Thr	Phe	Ile	Leu	Glu	Arg	Arg	Ser	Leu
			20					25					30		

Leu	Glu	Met	Tyr	Ala	Asp	Phe	Phe	Xaa	His	Pro	Asp	Leu	Phe	Val	Arg
		35					40					45			

Tyr	Leu	Thr	Glu	His	Gly	Ser	Phe	Gln	Arg	Leu	Gln	Met	Leu	Leu	Ser
	50					55					60				

Ser	Phe	Leu	Pro	Phe	Ile	Leu	Gln	Asp	Arg	Trp	Ile	Pro	Cys	His	Leu
	65				70					75					80

Ser	Asn	Ile	Ser	Gly	Tyr	Ser	Val	Val	Leu	Asn	Asn	Xaa	Phe	Thr	Leu
				85					90					95	

Val	Ala	Cys	Leu	Leu	Lys	Val	Ile	Trp	Gly	Arg	Cys
			100					105			

<210> 5329

<211> 67

4752

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5329

Leu Cys Met Ser Leu Gly Glu Cys Val Ser Ser Thr Val Ala Pro Arg
 1 5 10 15

Gly Ser Thr His Ser Leu Lys Leu Leu Leu Pro His Cys Thr Tyr Ser
 20 25 30

Leu Arg Leu Asn Trp Ser Gln Thr Asn Trp Asp Pro Ala Gln Ser Ser
 35 40 45

Ser Ser Gln Asn Glu Val Leu Arg Pro Gln Cys Val Arg Thr Cys Leu
 50 55 60

Ala Val Xaa
 65

<210> 5330

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5330

Ala Gln Phe Leu Gly His Ala Pro Val Cys Ser Asp Met Leu Leu Tyr
 1 5 10 15

Val Thr Glu Met Ala Met Ser Thr Gly Gly Lys Ile Thr Pro Thr Trp
 20 25 30

Glu Glu Glu Lys Pro Val Arg Gly Ser Thr Ala Gly Ala Ala Leu Ser
 35 40 45

Thr Glu Xaa Ser Cys Leu Pro Asp Ser Met Ala Phe Val Ser Ile Arg
 50 55 60

Val
 65

4753

<210> 5331

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5331

Ile Pro Ala Leu Leu Leu Thr Ser Leu Gly Pro Trp Arg Met Leu Ser
1 5 10 15

Ile Ser Leu Ser Leu Ser Val Leu Leu Cys Lys Met Trp Met Ile Pro
20 25 30

Asp Ser Gln Ala Phe Cys Gln Asp Tyr Met Gly Phe Leu His Ser Ala
35 40 45

Met Ser Ser Asp Asn Ile Asn Thr Lys Ser Asn Leu Leu Asn Val
50 55 60

<210> 5332

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5332

Met Pro Asp Gly Ala Thr Leu Ala Ile Gly Ser Ser Arg Gly Lys Ile
1 5 10 15

Tyr Gln Tyr Asp Leu Arg Met Leu Lys Ser Pro Val Lys Thr Ile Ser
20 25 30

Ala His Lys Thr Ser Val Gln Cys Ile Xaa Phe Gln Tyr Ser Thr Val

4754

35	40	45
Leu Thr Lys Ser Ser Leu Asn Lys Gly Cys Ser Asn Lys Pro Thr Thr		
50	55	60
Val Asn Lys Arg Met Phe Asn Val Asn Ala Ala Ser Gly Gly Val Gln		
65	70	75
Asn Ser Gly Ile Val Arg Glu Ala Pro Ala Thr Ser Ile Ala Thr Val		
	85	90
Leu Pro Gln Pro Met Thr Ser Ala Met Gly Lys Gly Thr Val Ala Val		
	100	105
Gln Glu Lys Ala Gly Leu Pro Arg Ser Ile Asn Thr Asp Thr Leu Ser		
	115	120
Lys Glu Thr Asp Ser Gly Lys Asn Gln Asp Phe Ser Ser Phe Asp Asp		
	130	135
Thr Gly Lys Ser Ser Leu Xaa Asp Met Phe Ser Pro Ile Arg Asp Asp		
145	150	155
Ala Val Val Asn Lys Gly Ser Asp Glu Ser Ile Gly Lys Gly Asp Gly		
	165	170
Phe Asp Phe Leu Pro Gln Leu Asn Ser Val Phe Pro Pro Arg Lys Asn		
	180	185
Pro Val Thr Ser Ser Thr Ser Val Leu His Ser Ser Pro Leu Asn Val		
	195	200
Phe Met Gly Ser Pro Gly Lys Glu Glu Asn Glu Asn Arg Asp Xaa Thr		
	210	215
Ala Glu Ser Lys Lys Ile Tyr Met Gly Lys Gln Glu Ser Lys Asp Ser		
225	230	235
Phe Lys Gln Leu Ala Lys Leu Val Thr Ser Gly Ala Glu Ser Gly Asn		
	245	250
Leu Asn Thr Ser Pro Ser Ser Asn Gln Thr Arg Asn Ser Glu Lys Phe		
	260	265
Glu Lys Pro Glu Asn Glu Ile Glu Ala Gln Leu Ile Cys Glu Pro Pro		
	275	280
Ile Asn Gly Ser Ser Thr Pro Asn Pro Lys Ile Ala Ser Ser Val Thr		
	290	300
Ala Gly Val Ala Ser Ser Leu Ser Glu Lys Ile Ala Asp Ser Ile Gly		

4755

305 310 315 320
 Asn Asn Arg Gln Asn Ala Pro Leu Thr Ser Ile Gln Ile Arg Phe Ile
 325 330 335
 Gln Asn Met Ile Gln Glu Thr Leu Asp Asp Phe Arg Glu Ala Cys His
 340 345 350
 Arg Asp Ile Val Asn Leu Gln Val Glu Met Ile Lys Gln Phe His Met
 355 360 365
 Gln Leu Asn Glu Met His Ser Leu Leu Glu Arg Tyr Ser Val Asn Glu
 370 375 380
 Gly Leu Val Ala Glu Ile Glu Arg Leu Arg Glu Glu Asn Lys Arg Leu
 385 390 395 400
 Arg Ala His Phe

<210> 5333

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5333

Arg Lys Pro Gln Thr Pro Thr Ala Leu Cys Thr Xaa Trp Cys Pro His
 1 5 10 15

Phe Gln Lys Lys Lys Lys Lys Ile Ser Lys Ile Glu Phe Lys Lys Ser
 20 25 30

His Leu Ser Cys Pro Ala Asn Ile Cys Ser Ser Leu Val Gly Ala Val
 35 40 45

Glu Ala Ser Thr His Arg Gln Ala Val Ala Gly Thr Val Lys Gly Lys
 50 55 60

Thr Pro
 65

<210> 5334

4756

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5334

Pro Arg Val Arg Arg Glu Val Gln Ser Leu Lys Glu Gln His Gln Lys
 1 5 10 15

Glu Ile Ser Glu Leu Asn Glu Thr Phe Leu Ser Asp Ser Glu Lys Glu
 20 25 30

Lys Leu Thr Leu Met Phe Glu Ile Gln Gly Leu Lys Glu Gln Cys Glu
 35 40 45

Asn Leu Gln Gln Glu Lys Gln Glu Ala Ile Leu Asn Tyr Glu Ser Leu
 50 55 60

Arg Glu Ile Met Glu Ile Leu Gln Thr Glu Leu Gly Glu Ser Ala Gly
 65 70 75 80

Lys Ile Ser Gln Glu Phe Glu Ser Met Lys Gln Gln Gln Ala Ser Asp
 85 90 95

Val His Glu Leu Gln Gln Lys Leu Arg Thr Ala Phe Thr Glu Lys Asp
 100 105 110

Ala Leu Leu Glu Thr Val Asn Arg Leu Gln Gly Glu Asn Glu Lys Leu
 115 120 125

Leu Ser Gln Gln Glu Leu Val Pro Glu Leu Glu Asn Thr Ile Lys Asn
 130 135 140

Leu Gln Glu Lys Asn Gly Val Tyr Leu Leu Ser Leu Ser Gln Arg Asp
 145 150 155 160

Thr Met Leu Lys Glu Leu Glu Gly Lys Ile Asn Ser Leu Thr Glu Glu
 165 170 175

Lys Asp Asp Phe Ile Asn Lys Leu Lys Asn Ser His Glu Glu Met Asp
 180 185 190

Asn Phe His Lys Lys Cys Glu Arg Glu Glu Arg Leu Ile Leu Glu Leu
 195 200 205

Gly Lys Lys Val Glu Gln Thr Ile Gln Tyr Asn Ser Glu Leu Glu Gln
 210 215 220

4757

Lys Val Asn Glu Leu Thr Gly Gly Leu Glu Glu Thr Leu Lys Glu Lys
 225 230 235 240

Asp Gln Asn Asp Gln Lys Leu Glu Lys Leu Xaa Gly Ser Asn Glu Ser
 245 250 255

Ser Leu

<210> 5335

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5335

Tyr Ala Ile Ile Met Gln Leu Asn Val Asp Glu Ser Gly Arg Gly Trp
 1 5 10 15

Ala Gln Met Val Pro His Asp Pro Gly Ile Asp Pro Glu Phe Pro Glu
 20 25 30

Glu Trp Val Asp Asn Thr Tyr Ser Asn Lys Asn Pro Phe Leu Leu Phe
 35 40 45

Ser Ile Lys Leu Leu Ser Lys Ile Ile Asp Arg Leu
 50 55 60

<210> 5336

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5336

Leu Cys His Glu Lys Leu Ser Leu Leu Glu Asp Phe Lys Asp Phe Arg
 1 5 10 15

Asp Ser Cys Ser Ser Ser Glu Arg Thr Asp Gly Arg Tyr Ser Lys Tyr
 20 25 30

Arg Val Arg Arg Asn Ser Leu Gln His His Gln Asp Asp Thr Lys Tyr
 35 40 45

Arg Thr Lys Ser Phe Lys Gly Asp Arg Thr Phe Leu Glu Gly Tyr His
 50 55 60

Thr Arg Gly Leu Asp His Ser Ser Ser Trp Gln Asp His Ser Arg Phe

4758

65						70						75						80
Leu	Ser	Ser	Pro	Arg	Phe	Ser	Tyr	Val	Asn	Ser	Phe	Thr	Lys	Arg	Thr			
				85					90					95				
Val	Ala	Pro	Asp	Ser	Ala	Ser	Asn	Lys	Glu	Asp	Ala	Thr	Met	Asn	Gly			
				100					105					110				
Thr	Ser	Ser	Gln	Pro	Lys	Lys	Glu	Glu	Tyr	Gly	Ser							
				115					120									

<210> 5337

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle$ (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle$ (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5337

Met Ser Arg Thr Arg Pro Ala Arg Pro Met Gly Trp Gly Gln Gln Arg
1 5 10 15

His Ser Pro Leu Val Val Gln Arg Gln Leu Xaa Arg Glu Gly Ser Ser
20 25 30

Pro Glu Gly Ser Thr Arg Arg Thr Ile Glu Gly Gln Ser Pro Glu Pro
35 40 45

Val Phe Gly Asp Ala Asp Val Asp Val Ser Ala Val Gln Ala Lys Leu
50 55 60

Gly Ala Leu Glu Leu Asn Gln Arg Asp Ala Ala Ala Glu Thr Glu Leu
65 70 75 80

Arg Val His Pro Pro Cys Gln Arg His Cys Pro Glu Pro Arg Val His
85 90 95

4759

Pro Lys Lys Thr Lys Pro Pro Ala Lys Leu Pro Lys Val Xaa Thr Gln
 100 105 110

Lys Pro Pro Ser Leu Ala Leu Phe Pro Xaa Ser Ser Pro Cys Gly Asn
 115 120 125

Leu Leu Leu Ala Arg Lys Phe Gly
 130 135

<210> 5338

<211> 120

<212> PRT

<213> Homo sapiens

<400> 5338

Val Leu Asp Arg Glu Arg Pro Ser Phe Phe Phe Phe Phe Ser Val Gln
 1 5 10 15

Ala Gln Phe Cys His Gln Phe Asp Tyr Glu Lys Ser Phe Gly Leu Pro
 20 25 30

Gly Ser Phe Gly Ala Trp Lys Leu Gln Met Arg Asp Gly Gly Leu His
 35 40 45

Cys Phe Ala Ala Gly Glu Arg Glu Leu Ile Arg Ser Leu Pro Thr Glu
 50 55 60

Val Gly Val Met Pro Asp Ala Glu Arg Ser Gly Ser Pro Arg Ala Gln
 65 70 75 80

Ala Pro Cys Gly Arg Cys Pro Gln Arg Ala Ser Pro Pro Pro Arg Pro
 85 90 95

Gly Ser Tyr Leu Leu His Asp Leu Leu Pro Arg Arg Ala Ala Tyr Leu
 100 105 110

Leu Asp Gly Leu Leu Asp Val Leu
 115 120

<210> 5339

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4760

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5339

Ala	Gly	Met	Met	Tyr	Leu	Xaa	Asn	His	Thr	Pro	Val	Leu	Ile	Ser	His
1				5					10					15	
Gln	Ile	Ser	Met	Phe	Thr	Phe	Ser	Val	Trp	Met	Ser	Gly	Arg	Thr	Leu
			20					25					30		
Lys	Asn	Trp	Gln	Ser	Cys	Pro	Thr	His	Ala	Glu	His	Leu			
			35				40					45			

<210> 5340

<211> 288

<212> PRT

<213> Homo sapiens

<400> 5340

Arg	Ser	Ala	Pro	Pro	Gly	Arg	Cys	Arg	Pro	Trp	Pro	Val	Pro	Ser	Pro
1				5					10					15	
Arg	Phe	Ser	Ala	Pro	Arg	Ala	Val	Pro	Ser	Gln	Ser	Pro	Ala	Pro	Arg
			20					25					30		
Tyr	Arg	Ala	Asp	Arg	Pro	Ser	Arg	Arg	Leu	Pro	Val	Pro	Gly	Thr	Pro
			35				40					45			
Ala	Arg	Pro	Leu	Ala	Arg	Ser	Pro	Pro	Ala	Ala	His	Val	Pro	Gly	Ala
		50				55					60				
Gly	Pro	Arg	Ala	Gly	Gly	Arg	Ala	Ala	Arg	Arg	Ser	Gln	Ala	Gly	Leu
	65				70				75					80	
Cys	Ser	Val	Pro	Met	Ala	Ala	Ala	Gly	Trp	Arg	Asp	Gly	Ser	Gly	Gln
				85				90					95		
Glu	Lys	Tyr	Arg	Leu	Val	Val	Val	Gly	Gly	Gly	Gly	Val	Gly	Lys	Ser
			100					105					110		
Ala	Leu	Thr	Ile	Gln	Phe	Ile	Gln	Ser	Tyr	Phe	Val	Thr	Asp	Tyr	Asp
			115				120					125			
Pro	Thr	Ile	Glu	Asp	Ser	Tyr	Thr	Lys	Gln	Cys	Val	Ile	Asp	Asp	Arg
			130			135					140				
Ala	Ala	Arg	Leu	Asp	Ile	Leu	Asp	Thr	Ala	Gly	Gln	Glu	Glu	Phe	Gly
			145			150				155					160

4761

Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Leu Val
 165 170 175

Phe Ser Val Thr Asp Arg Gly Ser Phe Glu Glu Ile Tyr Lys Phe Gln
 180 185 190

Arg Gln Ile Leu Arg Val Lys Asp Arg Asp Glu Phe Pro Met Ile Leu
 195 200 205

Ile Gly Asn Lys Ala Asp Leu Asp His Gln Arg Gln Val Thr Gln Glu
 210 215 220

Glu Gly Gln Gln Leu Ala Arg Gln Leu Lys Val Thr Tyr Met Glu Ala
 225 230 235 240

Ser Ala Lys Ile Arg Met Asn Val Asp Gln Ala Phe His Glu Leu Val
 245 250 255

Arg Val Ile Arg Lys Phe Gln Glu Gln Glu Cys Pro Pro Ser Pro Glu
 260 265 270

Pro Thr Arg Lys Glu Lys Asp Lys Lys Gly Cys His Cys Val Ile Phe
 275 280 285

<210> 5341

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5341

Ala Ala Ala Glu Arg Asp Val Pro Pro Pro Pro Pro Pro Pro Pro
 1 5 10 15

Pro Ser Glu Pro Leu Leu Ala Leu Arg Gly Gly Ala Thr Asp Ala Cys
 20 25 30

Leu Ala Arg Arg Thr Leu Arg Asp Pro Gly Ala Ala Gln Pro Ala Glu
 35 40 45

Pro Arg Arg Ser Pro Ala Pro Gly Ala Pro Gly Ser Gln Cys Arg Pro
 50 55 60

4762

Ala Gly Gly Pro Val Arg Glu Pro Arg Val Arg Glu Leu Arg Leu His
 65 70 75 80
 Pro Asp Ala Ala Val Ala Arg Xaa Gly Thr Gly His Tyr Leu Cys Asn
 85 90 95
 Ala Cys Gly Leu Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile
 100 105 110
 Lys Pro Gln Lys Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys
 115 120 125
 Ala Asn Cys His Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu
 130 135 140
 Gly Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly
 145 150 155 160
 Val Pro Arg Pro Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys
 165 170 175
 Arg Lys Pro Lys Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser
 180 185 190
 Asn Asn Ser Ile Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp
 195 200 205
 Asp Cys Ser Lys Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly
 210 215 220
 Ala Gly Ala Pro Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu
 225 230 235 240
 Asn Ser Glu Leu Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val
 245 250 255
 Ser Leu Ala Ser Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser
 260 265 270
 Trp Cys Ala Leu Ala Leu Ala
 275

<210> 5342

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5342

4763

Glu Glu Leu Glu Ala Arg Gly Leu Arg Trp Leu Pro Trp Val Phe Pro
 1 5 10 15
 Ser Arg Leu Cys Tyr Cys Val Arg Pro Phe Ser His Cys Gly His Val
 20 25 30
 Phe Leu Glu Ser Ile Phe Gln Val Leu Tyr Ile Gln His Ser Pro Pro
 35 40 45
 Ser Phe Ser Leu Ile Pro Phe
 50 55

<210> 5343

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5343

Thr Glu Glu Ile Leu Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr
 1 5 10 15
 Gly Thr Cys Arg Arg Thr Ser Phe Pro Ile Val Ser Arg Ile Arg Ala
 20 25 30
 Trp Arg Asn His Gly His Ser Xaa Phe Leu Cys Glu Ile Gly Ile Arg
 35 40 45
 Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
 50 55

<210> 5344

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5344

Ser Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
 1 5 10 15
 Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu Ala
 20 25 30

4764

Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly Phe Ala
 35 40 45
 Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val Val Ser Ser
 50 55 60
 Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr Leu Gln Gly Glu
 65 70 75 80
 Gly Leu Ser Val Thr Gly Thr Cys Ala Met Trp Gly Arg Arg Arg Thr
 85 90 95
 Gly Ser Gly Trp Trp Pro Arg
 100

<210> 5345

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5345

Ser Leu Tyr Met Leu Thr Asn Ser Lys Gly Lys Glu Ile Asp His Lys
 1 5 10 15
 Leu His Val Asn Val Glu Gly Lys Leu Ile Asp His Lys Leu Lys Tyr
 20 25 30
 Asn Leu Ile Cys Tyr Ile Phe Leu Leu Ile Tyr Ile Pro Met Lys Xaa
 35 40 45
 Phe Leu Tyr
 50

<210> 5346

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4765

<400> 5346

Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys
 1 5 10 15
 Phe Ser Val Xaa Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met
 20 25 30
 Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile
 35 40 45
 Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile
 50 55 60
 Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys
 65 70 75 80
 Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile
 85 90 95

<210> 5347

<211> 291

<212> PRT

<213> Homo sapiens

<400> 5347

Arg Pro Asp Ser Arg Val Asp Pro Arg Val Arg Glu Val Thr Asp Tyr
 1 5 10 15
 Ala Ile Ala Arg Arg Ile Val Asp Leu His Ser Arg Ile Glu Glu Ser
 20 25 30
 Ile Asp Arg Val Tyr Ser Leu Asp Asp Ile Arg Arg Tyr Leu Leu Phe
 35 40 45
 Ala Arg Gln Phe Lys Pro Lys Ile Ser Lys Glu Ser Glu Asp Phe Ile
 50 55 60
 Val Glu Gln Tyr Lys His Leu Arg Gln Arg Asp Gly Ser Gly Val Thr
 65 70 75 80
 Lys Ser Ser Trp Arg Ile Thr Val Arg Gln Leu Glu Ser Met Ile Arg
 85 90 95
 Leu Ser Glu Ala Met Ala Arg Met His Cys Cys Asp Glu Val Gln Pro
 100 105 110

4766

Lys His Val Lys Glu Ala Phe Arg Leu Leu Asn Lys Ser Ile Ile Arg
 115 120 125

Val Glu Thr Pro Asp Val Asn Leu Asp Gln Glu Glu Ile Gln Met
 130 135 140

Glu Val Asp Glu Gly Ala Gly Gly Ile Asn Gly His Ala Asp Ser Pro
 145 150 155 160

Ala Pro Val Asn Gly Ile Asn Gly Tyr Asn Glu Asp Ile Asn Gln Glu
 165 170 175

Ser Ala Pro Lys Ala Ser Leu Arg Leu Gly Phe Ser Glu Tyr Cys Arg
 180 185 190

Ile Ser Asn Leu Ile Val Leu His Leu Arg Lys Val Glu Glu Glu Glu
 195 200 205

Asp Glu Ser Ala Leu Lys Arg Ser Glu Leu Val Asn Trp Tyr Leu Lys
 210 215 220

Glu Ile Glu Ser Glu Ile Asp Ser Glu Glu Glu Leu Ile Asn Lys Lys
 225 230 235 240

Arg Ile Ile Glu Lys Val Ile His Arg Leu Thr His Tyr Asp His Val
 245 250 255

Leu Ile Glu Leu Thr Gln Ala Gly Leu Lys Gly Ser Thr Glu Gly Ser
 260 265 270

Glu Ser Tyr Glu Glu Asp Pro Tyr Leu Val Val Asn Pro Asn Tyr Leu
 275 280 285

Leu Glu Asp
 290

<210> 5348

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5348

Thr Cys Ser Arg Ser Arg Ala Ala Ala Leu Leu Thr Val Leu Gly Val
 1 5 10 15

Cys Val Gln Ser Glu Gln Gly Leu Cys Phe Trp Ile Val Lys Glu Asp
 20 25 30

4767

Ala

<210> 5349

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5349

Thr	Pro	Ala	Gly	Xaa	Arg	Ser	Gly	Asn	Ser	Arg	Val	Glu	Gly	Pro	Leu
1				5				10						15	

Ser	Cys	Leu	Tyr	Ser	Phe	Ser	Leu	Leu	Tyr	Ser	Phe	Thr	Arg	Ser	Pro
		20					25					30			

His	Leu	Thr	Ser	Glu	Leu	Leu	Gly	Pro	Leu	Asp	Pro	His	Ile	Ser	Trp
		35					40					45			

Ala	Ile	Ser	Leu	Phe	Cys
					50

<210> 5350

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5350

4768

Xaa Arg Lys Thr Leu Asp Val Xaa Xaa Thr Ile Met Gly Thr Arg Ile
 1 5 10 15
 Glu Gly Phe Phe Pro Leu Lys Ala Phe Leu Pro Gly Gly Trp Ala Leu
 20 25 30
 Leu Gly His Ala Leu Gln Ser Ser Val Pro Gln Gln Glu Ser Gly Gly
 35 40 45
 His His Leu Pro Ala Ser Ser Thr Phe Ser Ala Ser Leu Phe Ser Met
 50 55 60
 Asn Pro Gly Arg Pro Ala Gly Thr Ser Lys Phe Pro Gly Leu Ser Ala
 65 70 75 80

<210> 5351

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5351

Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu Phe Ala Ser Phe Ile
 1 5 10 15
 Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val Leu Ile Ile Leu Phe
 20 25 30
 Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu Ile Asn Asn Arg Leu
 35 40 45
 Ile Thr Thr Gln Gln
 50

<210> 5352

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5352

4769

Arg Cys Pro Thr Arg Ser Pro Pro Pro Asp Thr Pro Gly Ser Arg Gly
 1 5 10 15
 Thr Thr Ala Met Cys Ser Leu Ala Ser Gly Ala Thr Gly Gly Arg Gly
 20 25 30
 Ala Val Glu Asn Glu Glu Asp Leu Pro Glu Leu Ser Asp Ser Gly Asp
 35 40 45
 Glu Ala Ala Trp Glu Asp Glu Asp Asp Ala Asp Leu Pro His Gly Lys
 50 55 60
 Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala Glu
 65 70 75 80
 Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile Asp Ser
 85 90 95
 Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile Lys Leu Ile
 100 105 110
 Xaa Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr Met Asn Ser Ile
 115 120 125
 Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr Leu Lys Pro Val Leu
 130 135 140
 Glu Asp Asp Leu Leu Leu Gln Phe Asp Val Glu Asp Leu Tyr Glu Pro
 145 150 155 160
 Val Ser Val Pro Phe Ser Tyr Pro Asn Gly Leu Ser Glu Asn Thr Ser
 165 170 175
 Val Val Glu Lys Leu Lys His Met Glu
 180 185

<210> 5353

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5353

Tyr Ile Lys Ala Leu Leu Ser Ser Asp Tyr Ala Tyr Phe Ala Ser Arg
 1 5 10 15
 Glu Thr Glu Ala Trp Val Gly Gln Arg Gly Ala His Val Phe Thr Ala
 20 25 30
 Leu Ser Ala Pro Asp Phe Gly Ala Ile Ser Leu His Pro Cys Ala Pro

4770

35 40 45
 Val Lys Asn Leu Ala Ser Thr Phe Cys Ser Pro Asp Pro Pro Ser Leu
 50 55 60
 Thr Cys Gly Ser Cys His Thr Lys Met Gly Leu Pro
 65 70 75

<210> 5354
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 5354
 Gly Thr Gln Leu Ile Thr Arg Arg Ile Asn Trp Pro Lys Phe Leu Ile
 1 5 10 15
 Phe Gln Phe Val Ala Pro Ala Pro Arg Asp His Gln Lys Leu Phe Trp
 20 25 30
 Val Ser Leu Ser Leu Arg Arg Asp Pro Leu His Arg Pro Ser Leu Ile
 35 40 45
 Leu Ile Ser Pro Cys Pro Glu Ser Val Asn Val Pro Arg Lys
 50 55 60

<210> 5355
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 5355
 Gly His Val Asp Asn Leu Arg Tyr His Ser Ile Val His Asn Val His
 1 5 10 15
 His Tyr Ser Val Asp Cys Lys Gly Leu Leu Ser Ser Cys Lys Asn Tyr
 20 25 30
 Pro Ser Lys Ser Ile Phe Lys Val Leu Val Leu Leu Ile Tyr Lys Leu
 35 40 45
 Cys Ala Arg Ser Pro Lys Val Asn Ser Asn Ile Tyr Leu Lys Tyr Ser
 50 55 60
 Leu Ser Tyr Leu Ile Asn Leu Trp Tyr Ile Phe Leu Tyr Tyr Ala Cys
 65 70 75 80

4771

<210> 5356

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5356

Leu Lys Met Lys Thr Pro Phe Phe Ile Phe Asn Leu Ala Glu Thr Ala
 1 5 10 15

His Met Pro Ser Lys Val Lys Ala Gln Leu Tyr Ala Gln Ala Tyr Asp
 20 25 30

Leu Tyr Lys Glu Ile Val Tyr Leu Gln Lys Glu His Pro Val Asn Trp
 35 40 45

His Lys Asn Tyr Ala Ile Ala Cys Glu Arg Met Leu Arg Leu Gln Ala
 50 55 60

Arg Asp Ala Asp Pro Glu Val Leu Leu Ser Glu Thr Ile Arg His Phe
 65 70 75 80

Arg Leu Tyr Ser Gln Lys Ala Pro Asn Asp Pro Gln Gln Ala Asp Ile
 85 90 95

Leu Gly Ala Leu Lys His Leu Arg Lys Glu Leu Gln Ser Leu Arg Asn
 100 105 110

Arg Lys Asn Val
 115

<210> 5357

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5357

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Pro Ala Gly His
 1 5 10 15

4772

Ser Gln Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val
20 25 30

Lys Val Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro
35 40 45

His Asn Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val
50 55 60

Ala Asn Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu
65 70 75 80

His Arg Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys
85 90 95

Arg Lys Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Xaa Pro Lys
100 105 110

Asn Phe Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys
115 120 125

Ser Ile Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser
130 135 140

Gly Leu Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr
145 150 155 160

Ser Asp His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn
165 170 175

Val Asp Glu Glu Lys Gln Arg Met
180

<210> 5358

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5358

Asn Leu Arg Phe Asp Asp Ala Glu Ala Leu Asp Tyr Thr Phe Ala Tyr
1 5 10 15

Phe Asp Lys Val His Leu Ser Leu Phe Ile Ser Ser Val Phe Phe Cys
20 25 30

Tyr Gln Arg Gln Leu Ile Ser Phe Val Pro Gln Tyr Phe Phe Cys Lys
35 40 45

Tyr Leu Pro Lys Phe Phe Gln Ile Leu Cys Lys Met Gln Val Ile Val

4773

50 55 60
 Glu Met Pro Val Tyr Ala Phe Met Leu Ala Ser Leu Asn
 65 70 75

 <210> 5359
 <211> 83
 <212> PRT
 <213> Homo sapiens

 <400> 5359
 Gln Ser Val Tyr Lys Arg Gly Leu Gln Lys Lys Met Arg Ala Cys Phe
 1 5 10 15
 Thr Gln Gln Lys Ile Trp Pro Phe Leu Asn Asp Thr Arg Arg Val Ile
 20 25 30
 Leu Ser His Thr Phe Pro Ser Phe Arg Trp Trp Thr Phe Val Glu Thr
 35 40 45
 Gly Thr Gln Trp Ser Asn Arg Leu Cys Pro Pro Val Ala Asp Ser Pro
 50 55 60
 Ala Gly Arg Trp Thr Arg Gly Pro Val Leu Thr Val Thr Arg Leu Ser
 65 70 75 80
 Leu Leu Glu

<210> 5360
 <211> 82
 <212> PRT
 <213> Homo sapiens

 <400> 5360
 Phe Tyr Pro Gly Arg Lys Ile Lys Gly Ser His Arg Ile Ala Leu Val
 1 5 10 15
 Lys Thr Lys His Thr Ile Ala Leu Thr Glu Tyr Leu Gly Asn Leu Pro
 20 25 30
 Asn Leu Leu Ile Phe Gly Val Cys Phe Leu Thr Val Gly Leu Trp Glu
 35 40 45
 Asp Val Ile Tyr Asp Gln Tyr Leu Pro Val Thr Leu Phe Ile Ser Leu
 50 55 60

4774

Ala Leu Lys Ala Asn Gly Gly Lys Lys Ser Met Lys Lys Lys Arg Leu
 65 70 75 80

Ile Lys

<210> 5361

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5361

Gly Lys Met Cys Ala Ala Gln Val Arg Glu Tyr Tyr Leu Ala Xaa Lys
 1 5 10 15

Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys
 20 25 30

Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu
 35 40 45

Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
 50 55 60

Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser Trp Arg Asn Ser
 65 70 75 80

Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Pro Glu
 85 90 95

4775

Trp Xaa Met Xaa
100

<210> 5362

<211> 379

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5362

Arg Pro Thr Arg Pro Val Phe Tyr Ala Xaa Glu Ser Trp Ile Lys Tyr
1 5 10 15

Asp Val Gln Glu Arg Gln Lys Tyr Leu Ala Gln Leu Leu Asn Ser Val
20 25 30

Arg Leu Pro Leu Leu Ser Val Lys Phe Leu Thr Arg Leu Tyr Glu Ala
35 40 45

Asn His Leu Ile Arg Asp Asp Arg Thr Cys Lys His Leu Leu Asn Glu
50 55 60

Ala Leu Lys Tyr His Phe Met Pro Glu His Arg Leu Ser His Gln Thr
65 70 75 80

Val Leu Met Thr Arg Pro Arg Cys Ala Pro Lys Val Leu Cys Ala Val
85 90 95

Gly Gly Lys Ser Gly Leu Phe Ala Cys Leu Asp Ser Val Glu Met Tyr
100 105 110

Phe Pro Gln Asn Asp Ser Trp Ile Gly Leu Ala Pro Leu Asn Ile Pro
115 120 125

Arg Tyr Glu Phe Gly Ile Cys Val Leu Asp Gln Lys Val Tyr Val Ile
130 135 140

Gly Gly Ile Ala Thr Asn Val Arg Pro Gly Val Thr Ile Arg Lys His
145 150 155 160

Glu Asn Ser Val Glu Cys Trp Asn Pro Asp Thr Asn Thr Trp Thr Ser
165 170 175

Leu Glu Arg Met Asn Glu Ser Arg Ser Thr Leu Gly Val Val Val Leu

4776

180	185	190
Ala Gly Glu Leu Tyr Ala Leu Gly Gly Tyr Asp Gly Gln Ser Tyr Leu		
195	200	205
Gln Ser Val Glu Lys Tyr Ile Pro Lys Ile Arg Lys Trp Gln Pro Val		
210	215	220
Ala Pro Met Thr Thr Thr Arg Ser Cys Phe Ala Ala Ala Val Leu Asp		
225	230	235
Gly Met Ile Tyr Ala Ile Gly Gly Tyr Gly Pro Ala His Met Asn Ser		
245	250	255
Val Glu Arg Tyr Asp Pro Ser Lys Asp Ser Trp Glu Met Val Ala Ser		
260	265	270
Met Ala Asp Lys Arg Ile His Phe Gly Val Gly Val Met Leu Gly Phe		
275	280	285
Ile Phe Val Val Gly Gly His Asn Gly Val Ser His Leu Ser Ser Ile		
290	295	300
Glu Arg Tyr Asp Pro His Gln Asn Gln Trp Thr Val Cys Arg Pro Met		
305	310	315
Lys Glu Pro Arg Thr Gly Val Gly Ala Ala Val Ile Asp Asn Tyr Leu		
325	330	335
Tyr Val Val Gly Gly His Ser Gly Ser Ser Tyr Leu Asn Thr Val Gln		
340	345	350
Lys Tyr Asp Pro Ile Ser Asp Thr Trp Leu Asp Ser Ala Gly Met Ile		
355	360	365
Tyr Cys Arg Cys Asn Phe Gly Leu Thr Ala Leu		
370	375	

<210> 5363

<211> 130

<212> PRT

<213> Homo sapiens

<400> 5363

Lys His Trp Thr Ser Leu Thr Tyr Phe Phe Ser Phe Ser Ala Phe Arg
1 5 10 15

Met Ile Pro Tyr Pro Leu Glu Lys Gly His Leu Phe Tyr Pro Tyr Pro
20 25 30

4777

Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His Glu
 35 40 45

Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe Thr
 50 55 60

Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His Gln
 65 70 75 80

Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Met Ile Asp Ile Phe
 85 90 95

Cys Ser Ala Glu Phe Arg Asp Trp Asn Cys Lys Ser Ile Phe Met Arg
 100 105 110

Val Glu Asp Glu Leu Glu Ile Pro Pro Ala Pro Gln Ser Gln His Phe
 115 120 125

Gln Asn
 130

<210> 5364

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5364

Ser Ser Ala Leu Glu Val Leu Glu Phe Leu Ile Ser Phe Ile Gln Phe
 1 5 10 15

Gln Gly Leu Ile Phe Tyr Arg Leu Pro Arg Gln Phe Ile Gln Gly Leu
 20 25 30

Leu Tyr Leu Arg Phe Thr Cys His Val Arg Ser Ser Gly Phe Glu His
 35 40 45

Lys Leu Tyr Ser Trp Asp Leu Ser Asp Thr Pro Leu Leu Thr Gly Leu
 50 55 60

Gly Phe His Phe Ser Asp Pro Phe
 65 70

<210> 5365

<211> 62

<212> PRT

<213> Homo sapiens

4778

<400> 5365

Ser Ala Pro Ser Pro Asn Leu Leu Pro Leu Gly Arg Val Gly Leu Arg
 1 5 10 15

Asp Leu Leu Ser Trp Lys Val Leu Thr Leu Pro Gly Glu Gly Ala Arg
 20 25 30

His Cys Pro Arg Glu Ser Asn Arg Arg Trp Lys Lys Ser Ile Lys Ser
 35 40 45

Asp Gln Asp Gly Gly Lys Lys Lys Lys Lys Arg Gly Gly
 50 55 60

<210> 5366

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5366

Gln Leu Val Thr Val Glu Glu Ala Gly Trp Val Phe Ser Gly Pro Arg
 1 5 10 15

Lys Phe Lys Met Ser Ala Met Leu Ser Ile Ile Thr Phe Cys Cys Gln
 20 25 30

Lys Gly Trp Gln Ile Glu Ala Phe Leu Pro Ile Ala Phe Ser Glu Leu
 35 40 45

Pro Cys Gln Ser Phe Thr Leu Gly Lys Glu Arg Trp Ala Gly Ile Leu
 50 55 60

Gly Asn Arg Thr Pro Glu Thr Tyr Leu Cys Leu Pro Lys Asn Val Asp
 65 70 75 80

<210> 5367

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

4779

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5367

Leu Pro Gln Ala Gln Gly Asp Gln Phe Pro Trp Glu Gln Ala Glu Gly
 1 5 10 15

Gln Ala Pro Gly Glu Asp Gly Gln Arg Leu Pro Asp Gln Ile His Pro
 20 25 30

Gly Val Pro Ala Arg Arg Arg Pro Trp Trp Arg Glu Arg Ala Arg Ala
 35 40 45

Val Arg Gly Leu Xaa Glu Gly Arg Glu Pro Glu Lys Arg Arg Glu Arg
 50 55 60

Lys Gln Arg Arg Glu Gly Gly Asp Gly Glu Glu Gln Asp Val Gly Asp
 65 70 75 80

Ala Gly Arg Leu Leu Leu Arg Val Leu His Val Ser Glu Asn Pro Val
 85 90 95

Pro Leu Thr Val Arg Val Ser Pro Glu Val Arg Asp Val Arg Pro Tyr
 100 105 110

Ile Val Gly Ala Val Val Arg Gly Met Asp Leu Gln Pro Gly Asn Ala
 115 120 125

Leu Lys Arg Phe Leu Thr Ser Gln Thr Lys Leu His Glu Asp Leu Cys
 130 135 140

Glu Lys Arg Thr Ala Ala Thr Leu Ala Thr His Glu Leu Arg Ala Val
 145 150 155 160

Lys Gly Pro Leu Leu Tyr Cys Ala Arg Pro Pro Gln Asp Leu Lys Ile
 165 170 175

Val Pro Leu Gly Arg Lys Glu Ala Lys Ala Lys Glu Leu Val Arg Gln
 180 185 190

Leu Gln Leu Glu Ala Glu Glu Gln Arg Lys Gln Lys Lys Arg Gln Ser
 195 200 205

Val Ser Gly Leu His Arg Tyr Leu His Leu Leu Asp Gly Asn Glu Asn
 210 215 220

Tyr Pro Cys Leu Val Asp Ala Asp Gly Asp Val Ile Ser Phe Pro Pro
 225 230 235 240

4780

Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu
245 250 255

Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val
260 265 270

Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu
275 280 285

Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val
290 295 300

Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp
305 310 315 320

Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu
325 330 335

Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala
340 345 350

Pro Pro His Val Thr Val Val Xaa
355 360

<210> 5368

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5368

Ala Arg Xaa Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
1 5 10 15

4782

<213> Homo sapiens

<400> 5371

Thr Val Leu Ser Leu Ala Gly Leu Leu Gly Gly Lys Tyr Leu Gln Asn
 1 5 10 15

Asn Gly Ile Val Leu Gly Phe Leu Leu Ala Leu Glu Thr His Leu Phe
 20 25 30

Thr Asn Arg Phe Pro Glu Asp Thr Leu Ile Ser Pro Ser Tyr Leu Pro
 35 40 45

Glu Cys Leu Leu Met Ala Ser Leu Lys Lys Gly Gly Leu
 50 55 60

<210> 5372

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5372

Ser Ser Cys Pro Lys Ala Leu Trp Gly Pro Gly Trp Arg Ser Gln Gly
 1 5 10 15

Ile Leu Tyr Asp Leu Ala Ile Gly Cys Lys Arg Lys His Ile Pro Cys
 20 25 30

Cys Gly Ser Cys Ile Leu Phe His Ser Ser Pro Leu Lys Glu Lys Val
 35 40 45

His Val Leu Ser Pro Ala His Pro
 50 55

<210> 5373

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

4783

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5373

Glu Lys Leu Ile Leu Leu Leu Ser Leu Pro Gly Ile Asp Ile Asn Xaa
 1 5 10 15

Lys Asp Asn Ala Gly Trp Thr Pro Leu His Glu Ala Cys Asn Tyr Gly
 20 25 30

Asn Thr Val Cys Val Gln Glu Ile Leu Gln Arg Cys Pro Glu Val Asp
 35 40 45

Leu Leu Thr Gln Val Asp Gly Val Thr Pro Leu His Asp Ala Leu Ser
 50 55 60

Asn Gly His Val Glu Ile Gly Lys Leu Leu Leu Gln His Gly Gly Pro
 65 70 75 80

Val Leu Leu Gln Gln Arg Asn Ala Lys Gly Glu Leu Pro Leu Asp Tyr
 85 90 95

Val Val Ser Pro Gln Ile Lys Glu Glu Leu Xaa Ala Ile Thr Lys Ile
 100 105 110

Xaa Asp Thr Val Glu Asn Phe His Ala Gln Ala Glu Lys His Phe His
 115 120 125

Tyr Gln Gln Leu Glu Phe Gly Ser Phe Leu Leu Ser Arg Met Leu Leu
 130 135 140

Asn Phe Cys Ser Ile Phe Asp Leu Ser Ser Glu Phe Ile Leu Ala Ser
 145 150 155 160

Lys Gly Leu Thr His Leu Asn Glu Leu Leu Met Ala Cys Lys Ser His
 165 170 175

Lys Glu Thr Thr Ser Val His Thr Asp Trp Leu Leu Asp Leu Tyr Ala
 180 185 190

Gly Asn Ile Lys Thr Leu Gln Lys Leu Pro His Ile Leu Lys Glu Leu
 195 200 205

Pro Glu Asn Leu Lys Val Cys Pro Gly Val His Thr Glu Ala Leu Met
 210 215 220

Ile Thr Leu Glu Met Met Cys Arg Ser Val Met Glu Phe Ser
 225 230 235

4785

<210> 5376

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5376

His Phe Thr Val Leu Phe Gly Ile Ile Leu Tyr Glu Ala Val Trp Ile
 1 5 10 15

Gly Leu Leu Phe Pro Leu Val Asn Trp Leu Met Leu Arg Phe Trp Leu
 20 25 30

Leu Glu Ser Ile Cys Val Phe Pro Val Leu Ala Ser His Tyr Val Ile
 35 40 45

Cys Xaa Ile Phe
 50

<210> 5377

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5377

Met Arg Leu Lys Ser Val Cys Val Cys Xaa Arg Ala Arg Met Trp Pro
 1 5 10 15

Lys Asn Ser Ala Ile Met Ser Asn Ser Ser Phe Ala Leu Phe Leu Arg
 20 25 30

Val Asp Asp Ile Arg His Phe Ser Val Phe Gly Glu Ile Asp Trp Asp
 35 40 45

Thr Ser Pro Lys Pro Thr Gln Val Cys Asn Trp Lys Pro Gly Gly Trp
 50 55 60

Phe Ser Gly Pro Leu Cys Pro Leu Ser Phe Thr Val Ile Leu Phe Thr
 65 70 75 80

4786

Ser Thr

<210> 5378

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5378

Thr	Asn	Ser	Xaa	Phe	Asp	Lys	Gln	Asn	Asp	Asp	Pro	Lys	Glu	Arg	Ile
1				5					10					15	

Asp	Lys	Asp	Thr	Lys	Asn	Val	Asn	Ser	Asn	Thr	Gly	Met	Gln	Thr	Thr
			20					25					30		

Glu	Asn	Tyr	Leu	Thr	Glu	Lys	Gly	Asn	Glu	Arg	Asn	Val	Lys	Phe	Pro
		35					40					45			

Pro	Glu	His	Pro	Val	Glu	Asn	Asp	Val	Thr	Gln	Thr	Val	Ser	Ser	Phe
	50					55				60					

Ser	Leu	Pro	Ala	Ser	Ser	Arg	Ser	Lys	Lys	Leu	Cys	Asp	Val	Thr	Thr
65					70					75					80

Gly	Leu	Lys	Ile	His	Val	Ser	Ile	Pro	Asn	Arg	Ile	Pro	Lys	Ile	Val
			85						90					95	

Lys	Glu	Gly	Glu	Asp	Asp	Tyr	Tyr	Thr	Asp	Gly	Glu	Glu	Ser	Ser	Asp
		100						105					110		

Asp	Gly	Lys	Lys	Tyr	His	Val	Lys	Ser	Lys	Ser	Ala	Lys	Pro	Ser	Thr
	115						120					125			

Asn	Val	Lys	Lys	Ser	Ile	Arg	Lys	Lys	Tyr	Cys	Lys	Val	Ser	Ser	Ser
	130					135					140				

Ser	Ser	Ser	Ser	Leu	Ser	Ser	Ser	Ser	Ser	Gly	Ser	Gly	Thr	Asp	Cys
145				150						155					160

Leu	Asp	Ala	Gly	Ser	Asp	Ser	His	Leu	Ser	Asp	Ser	Ser	Pro	Ser	Ser
			165					170						175	

Lys	Ser	Ser	Lys	Lys	His	Val	Ser	Gly	Ile	Thr	Leu	Leu	Ser	Pro	Lys
			180					185						190	

4787

His Lys Tyr Lys Ser Gly Ile Lys Ser Thr Glu Thr Gln Pro Ser Ser
 195 200 205
 Thr Thr Pro Lys Cys Gly His Tyr Pro Glu Glu Ser Glu Asp Thr Val
 210 215 220
 Thr Asp Val Ser Pro Leu Ser Thr Pro Asp Ile Ser Pro Leu Gln Ser
 225 230 235 240
 Phe Glu Leu Gly Ile Ala Asn Asp Gln Lys Val Lys Ile Lys Lys Gln
 245 250 255
 Glu Asn Val Ser Gln Glu Ile Tyr Glu Asp Val Glu Asp Leu Lys Asn
 260 265 270
 Asn Ser Lys Tyr Leu Lys Ala Ala Lys Lys Gly Glu Glu Asn Leu Gly
 275 280 285
 Leu Leu
 290

<210> 5379
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 5379
 Pro Lys Thr Ala Phe Asp Ser Cys Ser Pro Thr Cys Ser Ser Pro Ser
 1 5 10 15
 Phe Leu His Leu Arg Asn Val Thr Ser Ser Ala Lys Ser Phe Pro Asp
 20 25 30
 Leu Ser Lys Ile Ile Thr Ser Ser Val Cys Cys Gly Asn Leu Tyr Arg
 35 40 45
 Met Val Gly Lys Phe Gln Val Ser Tyr Leu Asp
 50 55

<210> 5380
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 5380
 Lys Leu Leu Leu Phe Ser Leu Ser Ile Leu Leu Phe Phe Gly Lys Gln

4788

1	5	10	15
Ser Leu Ser Pro Val Met Gly Gly Gly Trp Glu Arg Leu His Ser	20	25	30
Thr Pro Trp Lys Trp Glu Tyr Pro Tyr Val Val Phe Gly Ile Phe Leu	35	40	45
Tyr Gly Lys Phe Val Ser Pro Ser His Pro Asn Leu Phe Thr Ser Val	50	55	60
Trp Thr His Val Tyr Phe Val Phe Trp Val Thr Gln Tyr Leu Phe Cys	65	70	75
Cys Leu Ser Cys Pro Ala Trp Leu Leu Gly Val Leu Pro Gly Trp Leu	85	90	95
Leu Cys Pro Phe Asp Val Pro Ile Leu Leu Ile Phe Glu His Phe Leu	100	105	110
Leu Ser Gly Thr Thr Arg Cys Ser Arg Phe Ile Leu Asp Ile Pro Cys	115	120	125
Pro Asn Pro Arg Ile Pro Arg Ile Asn Pro Cys Ser Lys Glu Pro Trp	130	135	140
Phe Leu Leu Leu Glu Asn His Thr	145	150	

<210> 5381

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5381

Phe Leu Cys Ser Val Val Tyr Phe Phe Phe Leu Leu Leu Leu Ser Pro	1	5	10	15
Leu Ser Pro Leu Lys Ala Gly Asn Arg Leu Leu Glu Asn Leu Arg Gly	20	25	30	
Lys Arg Ile Leu Phe Thr Gly Gly Ser Arg Lys Leu Ser Glu Arg Ser	35	40	45	

4789

Ile Val Leu Ser Pro Phe Pro Leu Ser Phe Gln Phe Gly Xaa Trp Trp
 50 55 60

Ser Glu Glu Glu Lys Glu Ile Leu Cys Met Tyr Val
 65 70 75

<210> 5382

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5382

Gly Asp Asp Phe Gly Arg Asn Pro Phe Gly Thr Thr His Pro Ala Met
 1 5 10 15

Ser Val Glu Lys Trp Asn Cys Asn Pro Gln Glu Ser His Phe Ile Phe
 20 25 30

Leu Pro Phe Lys Trp Leu Ile Lys Gly Ser Ala Ser Ser Thr Gly Phe
 35 40 45

Met Glu
 50

<210> 5383

<211> 133

<212> PRT

<213> Homo sapiens

<400> 5383

Asn Ala His Ala Gly Arg Tyr Cys Ser Tyr Gln Tyr Phe Ala Phe Tyr
 1 5 10 15

Asn Lys Gly Leu Phe Ile Leu Met Pro Phe Leu Gln Asp Phe Phe Val
 20 25 30

Ile Ser Val His Met Lys Met Leu Thr Leu Asn Ile Asn Thr Trp Arg
 35 40 45

Pro Cys Pro Val Ala Leu Pro Trp Leu Pro Ala Trp Ser Val Phe Pro
 50 55 60

Cys Gly Phe Thr Cys Gly Pro Ala Val Ala Thr Ser Met Val Cys Val
 65 70 75 80

Leu Val Asp Ser Leu Gln Leu Ser Asp Ala Ser Phe Cys His Asn His
 85 90 95

4790

Leu Phe Pro Asp Thr Ile Val Leu Ile Leu Phe Gln Asn Cys Lys Ile
100 105 110

Ile Ser Ser Leu Lys Cys Lys Gly Cys Phe Cys Ser Val Ser Val Phe
115 120 125

Phe Glu Ile Lys Leu
130

<210> 5384

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5384

Tyr Leu Phe Ser Leu Leu Phe Met Ser Leu Cys Arg Ile Leu Gly Tyr
1 5 10 15

Ser Phe Ser Ser Arg Leu Ser Ser Leu Ile Leu Pro Leu Ala Val Phe
20 25 30

His Tyr Cys Leu Ser Cys Pro Leu His Phe Lys Leu Ser Phe Lys Tyr
35 40 45

Leu Pro Phe Pro Ser Phe Pro Phe Ser Ser Leu Pro Cys Pro Ala Leu
50 55 60

Pro Cys Pro Ala Leu Pro Ser Pro Pro Leu
65 70

<210> 5385

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4791

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5385

Ile	Phe	Asp	Phe	Phe	His	Gln	Arg	Phe	Cys	Phe	Pro	Ala	Ile	Asp	Phe
1				5					10					15	

Ala	Tyr	Leu	Leu	Leu	Asp	Leu	Tyr	Leu	Lys	Val	Leu	Ser	Phe	Trp	Asn
			20					25					30		

Val	Cys	Phe	Cys	Thr	Cys	Phe	Ala	Asn	Xaa	Phe	Leu	Asn	Ser	Lys	Phe
		35					40					45			

Tyr	Cys	Leu	Ala	Tyr	Asn	Asn	Leu	Asn	Phe	Xaa	Tyr	Ile	Asn	Pro	Gly
	50					55					60				

Glu	Lys	Glu	Pro	Lys	Xaa	Thr
65				70		

<210> 5386

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5386

Leu	Ala	Asn	Cys	Ala	Phe	Lys	Lys	Lys	Asn	Arg	Gln	Thr	Phe	Glu	Gly
1				5					10					15	

Gln	Glu	Gly	Ser	Cys	Pro	Val	Phe	Gln	Lys	Ser	Phe	Phe	Pro	Ala	Ile
			20					25					30		

Arg	Asn	Val	Lys	Pro	Asn	Leu	Ala	Thr	Lys	Ile	Asn	Glu	Lys	Met	Gly
		35					40					45			

Phe	Pro	Leu	Val	Leu	Ser	Leu	Ser	Cys	Ser	Trp	Leu	Cys	Tyr	Val	Leu
	50					55					60				

Ser	Pro	Arg	Leu	Tyr	Pro	Asp	Lys	Met	Ser
65					70				

<210> 5387

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5387

4792

Gly Lys Arg His Ile Phe Ser Leu Thr Gln Leu Ala Asp Thr Glu Val
 1 5 10 15
 Gly Arg Trp Gln Glu Lys Ala Ser Thr Glu Leu Ile Gln Thr Cys Arg
 20 25 30
 Lys Leu Pro Leu Leu Leu Leu Ser Lys Met Lys Gly Ser Gly Lys Arg
 35 40 45
 His Leu Pro Phe Pro Ala Leu Arg Ile Leu Ala Ser Leu Ser Leu Tyr
 50 55 60

<210> 5388

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5388

Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly
 1 5 10 15
 Ser Thr His Ala Ser Ala Asn Ser Phe Val Lys Phe Ala Asn Ile Glu
 20 25 30
 Glu Asp Thr Pro Ser Tyr His Arg Arg Tyr Asp Phe Phe Val Ser Arg
 35 40 45
 Phe Ser Ala Met Cys His Ser Cys His Ser Asp Pro Glu Ile Arg Thr
 50 55 60

Glu Ile Arg Ile Ala Gly Ile Arg Gly Ile Gln Gly Val Val Arg Lys

4793

65		70		75		80									
Thr	Val	Asn	Asp	Glu	Leu	Arg	Ala	Thr	Ile	Trp	Glu	Pro	Gln	His	Met
				85					90					95	
Asp	Lys	Ile	Val	Pro	Ser	Leu	Leu	Phe	Asn	Met	Gln	Lys	Ile	Glu	Glu
			100					105					110		
Val	Asp	Ser	Arg	Ile	Gly	Pro	Pro	Ser	Ser	Pro	Ser	Ala	Thr	Asp	Lys
		115					120					125			
Glu	Glu	Asn	Pro	Ala	Val	Leu	Ala	Glu	Asn	Cys	Phe	Arg	Glu	Leu	Leu
	130					135					140				
Gly	Arg	Ala	Thr	Phe	Gly	Asn	Met	Asn	Asn	Ala	Xaa	Arg	Pro	Val	Phe
145					150					155					160
Ala	His	Leu	Asp	His	His	Lys	Leu	Xaa	Asp	Pro	Asn	Glu	Phe	Ala	Val
			165						170					175	
His	Cys	Phe	Lys	Ile	Ile	Met	Tyr	Ser	Ile	Gln	Ala	Gln	Tyr	Ser	His
		180						185					190		
His	Val	Ile	Gln	Glu	Ile	Leu	Gly	His	Leu	Asp	Ala	Arg	Lys	Lys	Asp
		195					200					205			
Ala	Pro	Gly	Phe	Glu	Gln	Val	Leu	Phe	Arg	Phe	Xaa				
	210					215					220				

<210> 5389

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4794

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5389

Leu	Cys	Val	Arg	Cys	Ser	Lys	Lys	Val	Ala	Gln	Ser	Val	Met	Arg	Lys
1				5					10					15	

Leu	Xaa	Gly	Tyr	Ile	Leu	Ser	Arg	Met	Asn	Arg	Gln	Asp	Ser	Leu	Lys
		20						25					30		

Asn	Phe	Leu	Gly	Asn	Glu	Lys	Xaa	Ala	Xaa	Cys	Asn	Xaa	Phe	Met	Pro
		35					40					45			

Ile	Ile	Pro	Asn	Thr	Xaa	Gly	Gly	Leu	Lys	Gly	Glu	Asp	His	Phe	Xaa
	50					55					60				

Pro

65

<210> 5390

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5390

Ile	Cys	Glu	Ile	Leu	Ser	Leu	Cys	Pro	Phe	Pro	Thr	Ser	Gly	Pro	Thr
1				5					10					15	

Pro	Gly	Pro	Ser	Pro	Thr	Phe	Leu	Leu	Ser	Ser	Leu	Ala	Val	Val	Ile
		20						25					30		

Ile	Trp	Gly	Leu	Tyr	Cys	Thr	Tyr	Pro	Gly	Cys	Val	Cys	Val	Gly	Trp
		35					40					45			

Gly	Gln	Pro	Phe	Cys	Thr	Glu	Leu	Pro	Gly	Pro	Leu	Pro	Pro	Arg	Pro
	50						55					60			

4795

Ser Ala Ser Leu Pro Thr His His Leu Lys Gly Arg Glu Leu Leu Phe
 65 70 75 80

Leu Pro Val Leu Phe Cys Phe Leu Val Leu Pro Pro His Pro Thr Pro
 85 90 95

Ser Leu Ile Tyr Pro Pro Ser Leu Ser Pro Phe Leu His Ser Gln Pro
 100 105 110

His Phe Leu Phe Phe Trp Ser Val Trp
 115 120

<210> 5391

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5391

Phe Thr Asn Trp Arg Leu Leu Ile Leu Ile His Leu Arg Phe Lys Ile
 1 5 10 15

Phe Ile Asn Cys Lys Gln Cys Asn Tyr Leu Tyr Phe Thr Val Pro Ser
 20 25 30

Gln Thr Phe His Leu Arg Phe Cys Cys Lys Lys His Gln Val Ser Xaa
 35 40 45

Thr

<210> 5392

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5392

Leu Leu Ala Ala Gly Ile Ser Glu Glu Gly Leu Val Leu Ile Leu Lys

4796

1 5 10 15
 Val Leu Cys Ser Cys Pro Arg Pro Glu Xaa Thr His Ala Glu Thr Leu
 20 25 30
 Pro Ser Pro Ser Lys Val Gln Gly Leu Val Thr Glu Tyr Trp Val Glu
 35 40 45
 His Met Thr Gly Ser Gln Leu Ile Pro Pro Ser Leu Pro Val Lys Pro
 50 55 60
 Gln Asp Ser Cys Phe Pro Gly Ser His Leu Arg Pro Leu Arg
 65 70 75

<210> 5393

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5393

Val Leu His His Val Leu Ile His Leu Ile Leu Thr Glu Ile Val Asn
 1 5 10 15
 Xaa Gly Ile Ile Leu Ile Leu Thr Leu Trp Ile Lys Lys Thr Lys Ala
 20 25 30
 Gln Arg Val Lys Ala Ser Leu Pro Glu Ile Ile Asp Cys Lys Phe Glu
 35 40 45

Arg

<210> 5394

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5394

Ile Leu Thr Pro Pro Leu Cys Asp Ile Gln Lys Leu Asn Ser Lys Cys
 1 5 10 15
 Asn Lys His Leu Asn Ile Arg Ile Lys Thr Ile Lys Leu

4797

20

25

<210> 5395

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5395

Ala	Glu	Ala	Glu	Phe	Ala	Met	Asp	Ser	Asn	His	Gln	Ser	Asn	Tyr	Lys
1				5					10					15	

Leu	Ser	Lys	Thr	Glu	Lys	Lys	Phe	Leu	Arg	Lys	Gln	Ile	Lys	Ala	Lys
			20					25					30		

His	Thr	Leu	Leu	Arg	His	Glu	Gly	Ile	Glu	Thr	Val	Ser	Tyr	Ala	Thr
	35					40					45				

Gln	Ser	Leu	Val	Val	Ala	Asn	Gly	Gly	Leu	Gly	Asn	Gly	Val	Ser	Arg
	50					55					60				

Asn	Gln	Leu	Leu	Pro	Val	Leu	Glu	Lys	Cys	Gly	Leu	Val	Asp	Ala	Leu
65					70					75					80

Leu	Met	Pro	Pro	Asn	Lys	Pro	Tyr	Ser	Phe	Ala	Arg	Tyr	Arg	Thr	Thr
				85					90					95	

Glu	Glu	Ser	Lys	Arg	Ala	Tyr	Val	Thr	Leu	Asn	Gly	Lys	Glu	Val	Val
			100					105					110		

Asp	Asp	Leu	Gly	Gln	Lys	Ile	Thr	Leu	Tyr	Leu	Asn	Phe	Val	Glu	Lys
		115					120					125			

Val	Gln	Trp	Lys	Glu	Leu	Arg	Pro	Gln	Ala	Leu	Pro	Pro	Gly	Leu	Met
	130					135					140				

Val	Val	Glu	Glu	Ile	Ile	Ser	Ser	Glu	Glu	Glu	Lys	Met	Leu	Leu	Glu
145					150					155					160

Ser	Val	Asp	Trp	Thr	Glu	Asp	Xaa	Asp	His	Gln	Asn	Ser	Gln	Lys	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4798

	165	170	175
Leu Lys Thr Xaa Lys Ser Lys Ala Phe Trp Leu			
180	185		

<210> 5396
 <211> 75
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

Phe Phe Pro Phe Gly Asn Ser Val Asn Pro Ala Val Gly Cys Cys Leu
1 5 10 15

Ser Asp Tyr Lys Arg Leu Gly Ser Cys Phe Cys Phe Lys Cys Leu Arg
20 25 30

Leu Trp Ser Tyr Thr Leu Val Leu Leu Gly Gln Ser Glu His Cys Leu
35 40 45

Leu Cys Lys Ile Ile Ser Phe Arg Val Xaa Ser Cys Gln Ile Tyr Trp
50 55 60

Pro Leu Ile Gln Tyr Ser Trp Val Tyr Cys Met
65 70 75

<210> 5397
 <211> 81
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

4799

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5397

Glu Asp Gln Glu Lys Lys Glu Leu Lys Met Glu Lys Ala Thr Val Arg
 1 5 10 15

Thr Val Gly Tyr Arg Arg Arg Asn Ser Gly Ser Thr Xaa Asp Pro Pro
 20 25 30

Pro Gly Xaa Met Ser Phe Gln Glu Trp Asn Pro Ser Leu Val Met Val
 35 40 45

Ser Xaa Pro Val Leu Pro Ala Ser Thr Leu Pro Cys Pro Pro Arg Gly
 50 55 60

Val Ser Glu Ser Ala Ser Gly Phe Leu Met Met Val Val Val Val Val
 65 70 75 80

Val

<210> 5398

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5398

Tyr Phe Val His His Asn Phe Cys Ile Tyr Phe Phe Lys Tyr Cys Ile
 1 5 10 15

Lys Ile Ser Phe Ser Leu Ile Ile Glu Phe Phe Gly Leu Arg Phe Phe
 20 25 30

Val Ala Ser Phe Phe Phe Ser Phe Phe Pro Pro Leu Phe Phe Gly Cys
 35 40 45

Pro Leu Lys Phe Cys Pro Lys Ala Gly Thr Ser Leu Ile Ser Ser Leu
 50 55 60

Ala Gln Pro Cys Trp Leu Val Phe Ser Ile Tyr Phe Ser Lys Ile Phe
 65 70 75 80

Val Ser Val

4800

<210> 5399

<211> 227

<212> PRT

<213> Homo sapiens

<400> 5399

Phe Ile Leu Arg Arg Leu Thr Met Asn Glu Leu Asn Ser Val Ser Asp
 1 5 10 15

Leu Asp Arg Cys His Leu Tyr Leu Met Val Leu Thr Glu Leu Ile Asn
 20 25 30

Leu His Leu Lys Val Gly Trp Lys Arg Gly Asn Pro Ile Trp Arg Val
 35 40 45

Ile Ser Leu Leu Lys Asn Ala Ser Ile Gln His Leu Gln Glu Met Asp
 50 55 60

Ser Gly Gln Glu Pro Thr Val Gly Ser Gln Ile Gln Arg Val Val Ser
 65 70 75 80

Met Ala Ala Leu Ala Met Val Cys Glu Ala Ile Asp Gln Lys Pro Glu
 85 90 95

Leu Gln Leu Asp Ser Leu His Ala Gly Pro Leu Glu Ser Phe Leu Ser
 100 105 110

Ser Leu Gln Leu Asn Gln Thr Leu Gln Lys Pro His Ala Glu Glu Gln
 115 120 125

Ser Ser Tyr Ala His Pro Leu Glu Cys Ser Ser Val Leu Glu Glu Ser
 130 135 140

Ser Ser Ser Gln Gly Trp Gly Lys Ile Val Ala Gln Tyr Ile His Asp
 145 150 155 160

Gln Trp Val Cys Leu Ser Phe Leu Leu Lys Lys Tyr His Thr Leu Ile
 165 170 175

Pro Thr Thr Gly Ser Glu Ile Leu Glu Pro Phe Leu Pro Ala Val Gln
 180 185 190

Met Pro Ile Arg Thr Leu Gln Ser Ala Leu Glu Ala Leu Thr Val Leu
 195 200 205

Ser Ser Asp Gln Val Leu Pro Val Phe His Cys Leu Lys Val Leu Val
 210 215 220

Pro Asn Phe
 225

4801

<210> 5400

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5400

Gln Thr Cys Arg Phe Leu Leu Met Trp Glu Lys Ile Leu Ile Ile Asn
 1 5 10 15

Asp Ile Lys Val Ile Ile Phe Ser Tyr Val Tyr Arg Tyr Leu Tyr Phe
 20 25 30

Phe Leu Asn Glu Leu Leu Met Thr Phe Val Tyr Phe Tyr Leu Gly Leu
 35 40 45

Leu Leu Ser His Leu Phe Leu
 50 55

<210> 5401

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5401

Gln Ala Arg Leu Pro Ser Ala Asn Leu Ser Asn Trp Gly Gly Glu Arg
 1 5 10 15

Xaa Ser Ser Ser Glu Gly Arg Ala Arg Cys Gln Ile Cys Ser Ser Ala
 20 25 30

Pro Ala Ser Ala Ala Arg Arg Arg Ala Glu Gly Ala Pro Gly Pro Arg
 35 40 45

4802

Pro Val Thr Gly Arg Ala Gly Ala Pro Ala Val Arg Gly Arg Arg Arg
 50 55 60

Gly Pro Cys Arg Cys Trp Gly Thr Arg Tyr Arg Pro Cys Xaa Pro Arg
 65 70 75 80

Pro Pro Pro Xaa Gly Pro Leu Leu Ala Pro
 85 90

<210> 5402

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5402

Ile Arg His Glu Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val
 1 5 10 15

Lys Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro
 20 25 30

Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys Leu
 35 40 45

<210> 5403

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5403

Phe Gly Thr Arg Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu
 1 5 10 15

Val Glu Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr
 20 25 30

Asp Glu Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu
 35 40 45

Ile Ala Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu
 50 55 60

Glu Lys Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu

4803

65 70 75 80

Asp Leu Gln Lys Ala Leu Lys Arg Glu Trp Gly Asn Ile Ser Lys Asn

 85 90 95

Asp Ser Leu Leu

 100

<210> 5404

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5404

Pro His Arg Thr Ala Phe Ser Cys Phe Ser Asp Thr Leu Met Lys Val

1 5 10 15

Trp Arg Ser Gly Asp Ile Ile Asp Lys Ile Tyr Gln Phe Pro Glu Lys

 20 25 30

Thr Leu Asp Leu Lys Thr

 35

<210> 5405

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5405

Asp His Thr Gly Gln Arg Gly Leu His Ser His Leu Arg Leu Gln Asp

1 5 10 15

Gly Arg Pro Ala Ala Gly Gly Thr Arg Gly His Arg Ala Pro Leu Pro

 20 25 30

Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg

 35 40 45

Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Ser

 50 55 60

<210> 5406

<211> 183

<212> PRT

<213> Homo sapiens

4804

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5406

Leu Pro Pro Gln Ala Phe Asn His Ile Ala Lys Leu Cys Ser Leu Lys
 1 5 10 15

Arg Leu Val Leu Tyr Arg Thr Lys Val Glu Ile Glu Asp Tyr Asp Val
 20 25 30

Ile Ala Ser Met Ile Gly Ala Lys Cys Lys Lys Leu Arg Thr Leu Asp
 35 40 45

Leu Trp Arg Cys Lys Asn Ile Thr Glu Asn Gly Ile Ala Glu Leu Ala
 50 55 60

Ser Gly Cys Pro Leu Leu Glu Glu Leu Asp Leu Gly Trp Cys Gln Leu
 65 70 75 80

Cys Arg Xaa His Arg Val Phe Thr Arg Leu Ala His Gln Leu Pro Asn
 85 90 95

Leu Gln Lys Leu Phe Leu Thr Ala Asn Arg Ser Val Cys Asp Thr Asp
 100 105 110

Ile Asp Glu Leu Ala Cys Asn Cys Thr Arg Leu Gln Xaa Leu Asp Ile
 115 120 125

Leu Xaa Thr Arg Met Val Ser Pro Ala Ser Leu Arg Lys Leu Leu Glu
 130 135 140

Ser Cys Lys Asp Leu Ser Leu Leu Asp Val Ser Phe Cys Ser Gln Ile
 145 150 155 160

Asp Asn Arg Ala Val Leu Glu Leu Asn Ala Ser Phe Pro Lys Val Phe
 165 170 175

Ile Lys Lys Ser Phe Thr Gln

4805

180

<210> 5407

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5407

Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
 1 5 10 15

Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu
 20 25 30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg
 35 40 45

Trp Gly Val Gly Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser
 50 55 60

Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val
 65 70 75 80

Val Phe Phe Pro Phe Tyr Asp Gly Phe
 85

<210> 5408

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5408

His Ile Xaa Thr His Thr Gly Glu Arg Pro Phe Lys Cys Pro Phe Glu
 1 5 10 15

Gly Cys Gly Arg Ser Phe Thr Thr Ser Asn Ile Arg Lys Val His Val
 20 25 30

Arg Thr His Thr Gly Glu Arg Pro Tyr Tyr Cys Thr Glu Pro Gly Cys
 35 40 45

Gly Arg Ala Phe Ala Ser Ala Thr Asn Tyr Lys Asn His Val Arg Ile

4806

[illegible]

4807

<210> 5409

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5409

Leu Arg Leu Gln Glu Pro Ala Thr Thr His Pro Cys Pro Pro Thr Leu
 1 5 10 15

Gly Leu Ile Phe Val Thr Ser Pro His Tyr Ser Glu Leu Val Arg Pro
 20 25 30

Leu His Phe Cys Phe Thr Gln Leu Thr Trp Phe Ala His Thr Asp Thr
 35 40 45

Asn Lys His Leu Ser Ile Pro Met Ser Leu Leu Ser Ser Lys Asn Thr
 50 55 60

<210> 5410

<211> 27

<212> PRT

<213> Homo sapiens

<400> 5410

Ser Thr His Ala Ser Gly Ser Arg Ser Arg Ala Ala Ala Leu Phe Phe
 1 5 10 15

Phe Phe Lys Arg Phe Cys Thr Gly Lys Lys Lys
 20 25

<210> 5411

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5411

Ala Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp
 1 5 10 15

Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys

4808

20 25 30
 Phe Lys Leu Lys Leu Leu Ser Val Pro Leu Arg Glu Gly Tyr Gly Arg
 35 40 45
 Ile Pro Arg Gly Ala Leu Leu Ser Met Asp Ala Leu Asp Leu Thr Asp
 50 55 60
 Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
 65 70 75 80
 Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
 85 90 95
 Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
 100 105 110
 Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
 115 120 125
 Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
 130 135 140
 Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
 145 150 155 160
 Ala Glu Pro Thr Asn Pro Ser Lys Met Arg Lys Leu Phe Ser Phe Thr
 165 170 175
 Pro Ala Trp Asn Trp Thr Cys Lys Asp Leu Leu Leu Gln Ala Leu Arg
 180 185 190
 Glu Ser Gln Ser Tyr Leu Val Glu Asp Leu Glu Arg Ser
 195 200 205

 <210> 5412
 <211> 158
 <212> PRT
 <213> Homo sapiens

 <400> 5412
 Ser Cys Cys Arg Cys Arg Cys Ala Arg Ala Thr Gly Ala Arg Asp Ala
 1 5 10 15
 Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys Phe
 20 25 30
 Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
 35 40 45

4809

Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
 50 55 60
 Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
 65 70 75 80
 Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
 85 90 95
 Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
 100 105 110
 Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
 115 120 125
 Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His
 130 135 140
 Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro
 145 150 155

<210> 5413

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5413

Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Lys Lys Gln Met Leu
 1 5 10 15
 Lys Ser Tyr Trp Gln Ser Lys Leu Lys Leu Ala Ala Ile Phe Tyr Ile
 20 25 30
 Ile Ile Ser Ala Asn Pro Ile Phe
 35 40

<210> 5414

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

4810

<400> 5414

Ser Cys Leu Met Phe Phe Asn Met Pro Ser Tyr Lys Tyr Phe Ile Gln
 1 5 10 15
 Tyr Val Val Phe Val Asn Leu Thr Asn Asp Ile Lys His Lys Leu Gln
 20 25 30
 Cys Arg Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60
 Lys Gly Xaa Pro Phe
 65

<210> 5415

<211> 186

<212> PRT

<213> Homo sapiens

<400> 5415

Ala His Ala Ser Asp Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe
 1 5 10 15
 Asp Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro
 20 25 30
 Asn Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala
 35 40 45
 Leu Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly
 50 55 60
 Gly Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu
 65 70 75 80
 Gln Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg
 85 90 95
 Pro Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg
 100 105 110
 Ser Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu
 115 120 125
 Gly Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu
 130 135 140

4811

Glu Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile
 145 150 155 160

Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu
 165 170 175

Met Arg Thr Glu Glu Lys Lys Lys Lys
 180 185

<210> 5416

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5416

Cys Tyr Ser Cys Gln Thr Asn Ser Ala Lys Ile Phe Lys Val Thr Arg
 1 5 10 15

Gly Lys Arg Met Thr Asn Arg Ser Ala Ser Glu Tyr Ile Phe Gln Asn
 20 25 30

Val Gly Lys Lys Leu Leu Asn
 35

<210> 5417

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5417

Gly Ile Ser Ser Gly Arg Thr Arg Arg Glu Ser Cys Glu Leu Tyr Cys
 1 5 10 15

Ile Met Tyr Ile Pro Asp Leu Ile Leu Tyr Arg Thr Phe Tyr Ser Asp
 20 25 30

Ile Asn Leu Leu His Lys His Phe Ser Asn Asp Thr Lys Ile Thr Asp
 35 40 45

Lys Ile Tyr Tyr Ile Gln
 50

<210> 5418

<211> 91

<212> PRT

4812

<213> Homo sapiens

<400> 5418

Val Pro Pro Thr Pro Gly Gln His Gln Asp Gly Ser Ser Leu Gly Ala
 1 5 10 15

Phe Val Ser Pro Pro Cys Leu Cys Ser Glu Cys Ala Pro His Phe Ser
 20 25 30

Ala Thr Leu Thr Leu Ser Leu Ile Trp Ser Cys Leu Thr Ser Leu Leu
 35 40 45

Tyr Ala Leu Leu Leu Ser Ile Ser Ser Ala Leu Met Pro Ala Gly Val
 50 55 60

Met Pro Glu Ile Ile Ser Glu Lys Ala Arg Gln Phe Cys Val Cys Val
 65 70 75 80

Cys Ala His Arg Gly Val Leu Val Val Leu Ile
 85 90

<210> 5419

<211> 36

<212> PRT

<213> Homo sapiens

<400> 5419

Val Lys Asn Gly Lys Gln Lys Val Thr Ala Val Met Asn Ile Leu Val
 1 5 10 15

Gln Ile Leu Val Leu Asn Leu Thr Pro Glu Ser Lys Ile Leu Gly Ser
 20 25 30

Leu Phe Pro Val
 35

<210> 5420

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4813

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5420

Lys Ser Lys Glu Asn Arg Asn Gln Phe Glu Gly Leu Gln Gly Gly Leu
 1 5 10 15

Leu Ala Gln Leu Ser Ile Asn Thr Tyr Gly Val Ile Ala Val Phe Ser
 20 25 30

Arg Gly Val Leu Leu Arg Ser Gly Phe Leu Gly Leu His Ala Ala Met
 35 40 45

Asp Leu Asp Xaa Pro Ser Val Trp Gly Ser Leu Lys Gln Arg Thr Arg
 50 55 60

Pro Leu Leu Ile Asn Leu Ser Xaa Lys Lys Val Lys Lys Asn Pro Ser
 65 70 75 80

Lys Pro Pro Asp Leu Arg Ala Arg His His Leu Asp Arg Arg Leu Xaa
 85 90 95

<210> 5421

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5421

Gln Asn Ile Ser Ser Xaa Leu Ile Gly Pro Thr Xaa Val Phe Arg Val
 1 5 10 15

4814

Met Lys Leu Arg Phe Phe Cys Val Trp Leu His His Glu Ile Leu Arg
 20 25 30

Arg Pro Lys Pro
 35

<210> 5422

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5422

Xaa Lys Cys Lys Tyr Lys Thr Phe Gln Ile Lys Ile Glu Tyr Ala His
 1 5 10 15

Cys Ser Lys Ala Lys Leu Leu Pro Tyr Tyr Ile Tyr Phe Thr Ser Leu
 20 25 30

Ile Phe Ser Pro Ser Lys Met His Trp Tyr Ser Gly Leu Glu Ser Glu
 35 40 45

Ser Phe Ala Ile Lys Leu Thr Tyr Xaa Gly Phe Asn Pro Leu Lys Val
 50 55 60

Gln
 65

<210> 5423

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5423

Gly Thr Ser Arg Pro Ser His Tyr His Val Leu Trp Asp Asp Asn Cys
 1 5 10 15

4815

Phe Thr Ala Asp Glu Leu Gln Leu Leu Thr Tyr Gln Leu Cys His Thr
 20 25 30
 Tyr Val Arg Cys Thr Arg Ser Val Ser Ile Pro Ala Pro Ala Tyr Tyr
 35 40 45
 Ala His Leu Val Ala Phe Arg Ala Arg Tyr His Leu Val Asp Lys Glu
 50 55 60
 His Asp Arg
 65

<210> 5424

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5424

Pro Ile Gly Trp Lys Thr Arg Pro Ile Glu Glu Leu Gly Asn Val Ser
 1 5 10 15
 Phe Cys Tyr Phe Cys Tyr Ser Ser Leu Gly Phe Ile Val Ser Phe Phe
 20 25 30
 Ile Phe Lys Ile Leu Cys Leu Lys Val Phe Leu Leu Asn Tyr Glu Val
 35 40 45
 Asp Met His Val Tyr Ile Tyr Val Lys Tyr Leu Leu Cys Lys Val Phe
 50 55 60
 Phe Val Tyr Ser Leu Lys Arg Ser Leu Tyr Leu Asn Lys Ser Glu Gly
 65 70 75 80
 Gln Gln Xaa Lys Xaa Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 85 90 95

4817

[illegible]

<210> 5427

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5427

Arg Gly Leu Ala Xaa Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu
1 5 10 15

Tyr Gly Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr
20 25 30

Ser Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr
35 40 45

Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala His
50 55 60

Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser Pro Phe
65 70 75 80

Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val Leu Arg Ser
85 90 95

Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn Lys Gln Thr Leu
100 105 110

Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu Ser Met Cys Val Gly
115 120 125

4818

Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys Thr His Ile Ser Arg Leu
 130 135 140

Pro Pro Gly Ala Val Ala Gly Gln Ser Val Ala Ile Glu Gly Gly Val
 145 150 155 160

Cys Arg Leu Glu Ser Pro Val Asn
 165

<210> 5428

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5428

Phe Asn Phe Glu Phe Lys Pro Lys Phe Ile Gly Arg Leu Pro Phe Asp
 1 5 10 15

Leu Pro Leu Pro Pro His Leu Val Leu Ser Cys Ile Tyr Thr Pro Gly
 20 25 30

Pro Cys Gly Gly Ala Ala Gly Gly Ser Cys Ala Pro Glu Met Arg Leu
 35 40 45

Glu Arg Glu Leu Ala Ser Leu Leu Pro Ser Ser Val Ser Lys Glu Pro
 50 55 60

Arg Pro Ser Gly Pro Ala Ser Xaa Lys Arg Trp Trp Asn Pro Cys Ala
 65 70 75 80

Gly

<210> 5429

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4819

<400> 5429

Tyr Met Leu Gly Glu Lys Ile Tyr Glu Asn Phe Thr Ile Ile Phe Cys
 1 5 10 15

Leu Asp Asn Arg Ser Glu Gly Phe Tyr Pro Thr Trp Lys Val Lys Gly
 20 25 30

Leu Gly Leu Thr Asp Phe Leu Xaa Phe Ser Leu Asp Phe Met Lys Ser
 35 40 45

Met Leu Ser Phe Ser Gln Lys His
 50 55

<210> 5430

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5430

Gln Cys Arg Glu Val His Leu Glu Lys Arg Arg Gly Glu Gly Leu Gly
 1 5 10 15

Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu Leu Pro Thr Ala Val
 20 25 30

Ile Ala Asn Leu Leu His Gly Gly Pro Xaa Glu Arg Ser Gly Ala Leu
 35 40 45

Ser Ile Gly Asp Pro Leu Thr Gly Xaa Lys Gly Asp Gln Pro
 50 55 60

<210> 5431

<211> 133

<212> PRT

<213> Homo sapiens

4820

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5431

Phe	Leu	Gln	His	Trp	Ala	Ile	Arg	Asn	Asn	Phe	Leu	Lys	Ile	Thr	Val
1				5					10					15	

Leu	Tyr	Lys	Tyr	Leu	Lys	Phe	Lys	Tyr	Arg	Lys	Tyr	Leu	Lys	Gln	Lys
		20						25					30		

Ala	Leu	Leu	Xaa	Gly	His	Asp	Thr	Ser	Ala	Leu	Trp	Gln	Cys	Arg	Leu
		35					40					45			

Leu	Arg	Thr	Gln	Pro	Cys	Ser	Pro	Ser	Val	Cys	Ala	Pro	Ser	Leu	Ser
	50					55					60				

Ser	Phe	Ala	Val	Ile	Thr	His	Thr	Gly	Leu	Pro	Val	Trp	Ser	Leu	Glu
65					70				75						80

Lys	Pro	Gly	Phe	Gln	Ser	Thr	Val	Glu	His	Arg	Ile	Leu	Leu	Leu	Val
				85						90				95	

Trp	Met	Phe	Asn	Glu	Leu	Tyr	Phe	Lys	Tyr	Gln	Arg	Leu	Leu	Asn	Lys
			100					105					110		

Asp	Asn	Val	Cys	Phe	Ser	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Xaa	Xaa	Lys	Xaa	Lys
				130

<210> 5432

4821

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5432

Val Lys Gly Glu Trp Ser Gln Tyr Pro Gln Lys Cys Ser Lys Arg Ser
 1 5 10 15

Asn Ser Pro Leu Lys Met Ser Leu Phe Leu Ser Met Leu Tyr Pro Gly
 20 25 30

Val Leu Val Glu Gly Trp Gly Asn Gln Lys Ser Arg Phe Thr Phe Asn
 35 40 45

Ile Phe Leu Asn Tyr Ile His Phe Leu Lys Arg Asn Lys Lys Cys Lys
 50 55 60

<210> 5433

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5433

His Ile Arg Asn Lys Ile Leu Gly Tyr Phe Ile Xaa Leu Ala Tyr Phe
 1 5 10 15

Phe His Asn Leu Arg Ile Thr Val Phe Val Glu Glu Ile Arg Gln Ala
 20 25 30

Asn Lys Val Ala Lys Glu Ala Ala Asn Arg Trp Thr Asp Asn Ile Phe
 35 40 45

Ala Ile Lys Ser Trp Ala Lys Arg Lys Phe Gly Phe Glu Glu Asn Lys
 50 55 60

Ile Asp Arg Thr Phe Gly Ile Pro Glu Asp Phe Asp Tyr Ile Asp
 65 70 75

<210> 5434

4822

<211> 183

<212> PRT

<213> Homo sapiens

<400> 5434

Gly Leu Leu Val Gly Val Gly Ala Ala Ala Val Met Pro Gly Ile Val
 1 5 10 15

Glu Leu Pro Thr Leu Glu Glu Leu Lys Val Asp Glu Val Lys Ile Ser
 20 25 30

Ser Ala Val Leu Lys Ala Ala Ala His His Tyr Gly Ala Gln Cys Asp
 35 40 45

Lys Pro Asn Lys Glu Phe Met Leu Cys Arg Trp Glu Glu Lys Asp Pro
 50 55 60

Arg Arg Cys Leu Glu Glu Gly Lys Leu Val Asn Lys Cys Ala Leu Asp
 65 70 75 80

Phe Phe Arg Gln Ile Lys Arg His Cys Ala Glu Pro Phe Thr Glu Tyr
 85 90 95

Trp Thr Cys Ile Asp Tyr Thr Gly Gln Gln Leu Phe Arg His Cys Arg
 100 105 110

Lys Gln Gln Ala Lys Phe Asp Glu Cys Val Leu Asp Lys Leu Gly Trp
 115 120 125

Val Arg Pro Asp Leu Gly Glu Leu Ser Lys Val Thr Lys Val Lys Thr
 130 135 140

Asp Arg Pro Leu Pro Glu Asn Pro Tyr His Ser Arg Pro Arg Pro Asp
 145 150 155 160

Pro Ser Pro Glu Ile Glu Gly Asp Leu Gln Pro Ala Thr His Gly Ser
 165 170 175

Arg Phe Tyr Phe Trp Thr Lys
 180

<210> 5435

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5435

Gly Thr Gly Cys Cys Ala Glu Gly Arg Pro Glu Ser Gln Ser Ile Phe
 1 5 10 15

4823

Phe Thr Gly Ser Ala Gly Thr Gly Lys Ser Tyr Leu Leu Lys Arg Ile
 20 25 30
 Leu Gly Ser Leu Pro Pro Thr Gly Thr Val Ala Thr Ala Ser Thr Gly
 35 40 45
 Val Ala Ala Cys His Ile Gly Gly Thr Thr Leu His Ala Phe Ala Gly
 50 55 60
 Lys
 65

<210> 5436

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5436

His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1 5 10 15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
 20 25 30

4824

Arg Xaa Arg Glu Leu Val Ser Ser Phe Xaa Phe Xaa Phe Phe His Gly
35 40 45

<210> 5437

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5437

Glu Leu Trp Ser Pro Cys Leu Val Leu Phe Lys Thr Leu Cys Tyr Thr
1 5 10 15

Gly Val Asp Pro Gly Leu Lys Val Ile Gln Phe Trp Gly Leu Ser Leu
20 25 30

Arg Lys Arg Ile Leu Lys Tyr Leu Thr Phe Ala Asn Ile Xaa Lys Ile
35 40 45

Tyr Cys His Ile Asn Met Leu Leu Gly Pro Leu Leu Gly Pro
50 55 60

<210> 5438

<211> 163

<212> PRT

<213> Homo sapiens

<400> 5438

Ser Phe Phe Phe Phe Ser Arg Ser His Val Ser Leu Leu Leu Pro Thr
1 5 10 15

Ala Thr Tyr Phe Ile Pro His Gly Ser Arg His Ser Ser Thr Leu Thr
20 25 30

Asn Phe Leu Thr Pro Ser Ser Phe Leu Glu Ile Ile Ser Ser Pro Cys
35 40 45

Ala Glu Thr Val Ile Ala Leu Ser Ala Glu Met Ala Val Ser Ser Gln
50 55 60

4825

Gln Gly Glu Ile Met Glu Ser Arg Ile Phe Phe Gln Gly Ser His Ala
 65 70 75 80
 His Phe Pro Thr Cys Met Asn Val Asp Thr Ala Ala Thr Val Leu Ala
 85 90 95
 Val Asn Val Asn Leu Ala Ser Asn His Cys Ser Gln Gly Asn Val Pro
 100 105 110
 Ile Arg Arg Arg Leu Ser Gly Thr Leu Ile Leu Thr Gly Arg Trp Asp
 115 120 125
 Ile Leu Arg Asp Pro Glu Ala Gly Cys His Leu Leu Asn Phe Pro Glu
 130 135 140
 Gly Cys Leu Gly Ile Cys Phe Leu Phe Ile Leu Glu Leu Phe Phe Leu
 145 150 155 160
 Phe Met Gly

<210> 5439

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5439

Gln Gly Ile Leu Tyr Phe His Tyr Asn Gln Ile Ile Glu Ile Thr Cys
 1 5 10 15

Val Lys Gly Leu Gln Glu Tyr Ile Gln Phe Leu Asn Ile Leu Ile Tyr
 20 25 30

4826

Leu Leu Ser Asp Asn Leu Ile Leu Leu Asn Tyr His Leu Pro Leu Ser
35 40 45

Tyr Phe Ile Ile Asn Ser Val Gln Phe Pro Pro Lys Lys Xaa Xaa Tyr
50 55 60

Leu Xaa Asn Ile
65

<210> 5440

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

4827

<400> 5440

Val Ile Pro Trp Arg Thr Xaa Ser Ala Asn Xaa Glu Xaa Asp Leu His
 1 5 10 15
 Tyr Leu Xaa Leu Xaa Thr Xaa Thr Trp Ser Gly Arg Ile Thr Ile Asn
 20 25 30
 Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala
 35 40 45
 Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile Pro
 50 55 60
 Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys Gln
 65 70 75 80
 Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala Cys
 85 90 95
 Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp Asp
 100 105 110
 Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe Gln
 115 120 125
 Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly Lys
 130 135 140
 Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys Leu
 145 150 155 160
 Leu Gln Xaa Val Leu Lys Lys Lys Lys Lys
 165 170

<210> 5441

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

4828

<400> 5441

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Ile Gly Ser Val Pro Ala Val Pro Asn Gly Gln Cys Ile Gly Lys His
 1             5             10             15

Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu Leu
          20             25             30

Asp Cys Tyr Pro Thr Glu Glu Pro Ala Pro Gln Ala Thr Asn Thr Val
          35             40             45

Gly Ser Val Ile Gly Val Ile Val Thr Ile Phe Val Ser Gly Thr Val
          50             55             60

Tyr Phe Ile Cys Gln Arg Met Leu Cys Pro Arg Met Lys Gly Asp Gly
          65             70             75             80

Glu Thr Met Thr Asn Asp Tyr Val Val His Gly Pro Ala Ser Val Pro
          85             90             95

Leu Gly Tyr Val Pro His Pro Ser Ser Leu Ser Gly Ser Leu Xaa Xaa
          100            105            110

Met Ser Arg Gly Lys Ser Met Ile
          115            120

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<210> 5442

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5442

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Asn Met Tyr Lys Asn Gly Tyr Lys Met Val Glu Ala Thr Arg Ser Val
 1             5             10             15

Thr Gly Ile Ile His Ile Asn Thr Thr Lys Ile Gln Phe Asn Ala Lys
          20             25             30

Leu Asn Asp Ile Ile Leu His Gln Asn Leu Phe His Thr Lys Ala His
          35             40             45

Ala Ser Arg Val Ser Ile Arg
          50             55

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<210> 5443

<211> 125

<212> PRT

<213> Homo sapiens

4829

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5443

Leu	Leu	Lys	Arg	Ser	His	Phe	Asn	Cys	Phe	Cys	Tyr	Ser	Ile	Tyr	Cys
1				5					10					15	

His	Ser	Lys	Tyr	Ile	Leu	Thr	Gln	Asn	Lys	Leu	Asn	Asn	Leu	Cys	Met
			20					25					30		

Phe	Val	Cys	Val	Tyr	Met	His	Thr	Leu	Phe	Tyr	Ile	Lys	Ile	Leu	Arg
		35					40					45			

Leu	Tyr	Ser	His	Cys	Ala	Leu	Trp	Asn	Lys	Ala	Ile	Tyr	Ile	Asn	Val
	50					55					60				

Leu	Tyr	Val	Tyr	Val	Leu	Tyr	Ile	Xaa	Lys	Thr	Phe	His	Leu	Ile	Tyr
65					70					75				80	

Ile	Cys	Val	Xaa	Glu	Tyr	Met	Cys	Ala	Cys	Leu	Ala	Asp	Ile	Cys	Ile
			85						90					95	

Lys	Tyr	Lys	His	Ser	Val	Val	Ile	Xaa	Ala	Ile	Cys	Glu	Ile	Val	Asn
			100					105					110		

Phe	Lys	Ile	Thr	Ser	Gly	His	Arg	Leu	Val	Val	Ile	Ile
	115						120				125	

<210> 5444

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

4830

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5444

Gly Ala Met Ala Pro Lys Pro Gly Ala Glu Trp Ser Thr Ala Leu Ser
1 5 10 15

His Leu Val Leu Gly Val Val Ser Leu His Ala Ala Val Ser Thr Ala
20 25 30

Glu Ala Ser Arg Gly Ala Ala Ala Gly Phe Leu Leu Gln Val Leu Ala
35 40 45

Ala Thr Thr Thr Leu Ala Pro Gly Leu Ser Thr His Glu Asp Cys Leu
50 55 60

Ala Gly Ala Trp Val Ala Thr Val Ile Gly Leu Pro Leu Leu Ala Phe
65 70 75 80

Asp Phe His Trp Val Asn Gly Asp Arg Ser Ser Ala Asn Leu Leu Leu
85 90 95

Gly Gly Gly Met Val Leu Ala Val Ala Gly Gly His Leu Gly Pro Glu
100 105 110

Ala Xaa Cys Gly Trp Ser Gly Asn Ala Val Gly Gly Arg Ser Asp His
115 120 125

Pro His Cys Ser Cys Leu His Gly Gln His Leu Trp Asp Val Gly Gly
130 135 140

Gly Asp Ala Gly Cys Gly Arg Pro Pro Glu Pro Ala Gly Gly Gly Gln
145 150 155 160

Ala Ala Ala Ala Thr Glu Gly Gly Cys Leu Ser Leu Gly Leu Gly Cys
165 170 175

Arg Gln Leu Gly Leu Leu Pro Gly Pro Ala Tyr Thr Ala Pro Pro Val
180 185 190

Gly Val Thr Val Gly Tyr Ser Gln Ala Gly Phe Leu Pro Cys Arg Thr
195 200 205

Leu Ser Leu Pro Pro Ala Cys Ser Trp Arg Leu Leu Pro Arg Gly Arg
210 215 220

Leu Phe Cys Leu Leu Lys Trp Val Cys Cys Thr Leu Thr Gly Gln Gly
225 230 235 240

Gln Ser Leu Gly Ala Val Leu Trp Pro Arg Val Gly Thr Cys Leu Asp
245 250 255

4831

Gln Asn Glu Arg Asp Arg Val Pro Asp Thr Phe Gly Gly Pro Asp Ser
 260 265 270

Gly Leu Asp Thr Val Val Asp Pro Glu Lys Arg Pro Ser Leu Gln
 275 280 285

<210> 5445

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5445

Ser His Ala Cys Pro Leu Thr Phe Thr Arg Asn Ser Glu Lys Gln Ser
 1 5 10 15

Thr Tyr Phe Ala Thr Gln Trp Ser Ser Ser Leu Asn Thr Phe Ile Gln
 20 25 30

Arg Ser Thr Asn Tyr Asp Pro Pro Val Lys Ser Tyr Leu Ala Leu Val
 35 40 45

Phe Val Asn Lys Val Leu Leu Glu His
 50 55

<210> 5446

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5446

Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr
 1 5 10 15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys
 20 25 30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp
 35 40 45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly
 50 55 60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val
 65 70 75 80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly
 85 90 95

4832

Cys Thr Leu Phe
100

<210> 5447

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5447

Arg Ser Trp Gly Ser Xaa Trp Lys Gln Glu Asp Pro Ile Gln Gln Arg
1 5 10 15

Pro Leu Arg Leu Val Leu His Phe Leu Arg Glu Leu Ser Val Gly Ser
20 25 30

His His Pro Ala His Trp Leu Pro Pro Lys Pro Pro Pro Leu Thr Ser
35 40 45

Ala Asn Leu Leu Phe Gly Asp Pro Leu Ser Asp Pro Leu Cys Leu Pro
50 55 60

Ser Trp Ser Ser Ser Trp Arg Ile Ser Gly Gln Arg Gly Gly Gln Arg
65 70 75 80

Ser Phe Pro Ile Pro Pro Gln Arg Tyr Phe Leu Leu Gly Pro His Thr
85 90 95

Leu Thr Pro Ser Ser Glu Met Asn Thr Phe Leu Leu Leu Leu Leu Arg
100 105 110

Gln Ser Glu Thr Pro Ser
115

<210> 5448

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5448

Leu Leu Val Ser Asp Leu Thr Leu Leu Ser Lys Tyr Ser Ile Ile Ala
1 5 10 15

4833

Arg Phe Thr Glu Phe Arg Ser Leu Lys Val Tyr Ile Leu Phe Pro Tyr
 20 25 30

Val Asp Lys Leu Val Ser Leu Leu Leu Glu Tyr His Lys Val Phe Val
 35 40 45

Lys Ile Thr Gln Val Ile Lys
 50 55

<210> 5449

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5449

His Ala Phe Phe Leu Lys Leu Phe Arg Val Val Glu Ile Ala Ala Cys
 1 5 10 15

His Ser Xaa His Thr Ser Ala Ala Lys Thr Gln Gly Gly His Val Tyr
 20 25 30

Met Trp Gly Gln Cys Arg Gly Gln Ser Val Ile Leu Pro His Leu Thr
 35 40 45

His Phe Ser Cys Thr Asp Asp Val Phe Ala Cys Phe Ala Thr Pro Ala
 50 55 60

Val Ser Trp Arg Leu Leu Ser Val Gly Lys Lys Val Gln Gly His Phe
 65 70 75 80

Thr Gln Gly Gly Met Val Leu Pro Thr Asp Gln Phe Ser Cys Val Phe
 85 90 95

Ala Gly

<210> 5450

<211> 186

<212> PRT

<213> Homo sapiens

4834

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5450

Gly Gly Xaa Asp Gln Gly Gln Glu Pro Gly Pro Leu Glu Glu Gln Gln
 1 5 10 15

Arg Leu Ala His Leu Glu Asp Lys Leu Arg Leu Leu Ala Gln Ala Arg
 20 25 30

Asp Glu Ala Gln Gly Ala Cys Leu Gln Gln Lys Gln Val Val Ala Glu
 35 40 45

Ala Gln Thr Arg Val Ser Gln Leu Gly Leu Gln Val Glu Gly Leu Arg
 50 55 60

Arg Arg Leu Glu Glu Leu Gln Gln Glu Leu Ser Leu Lys Asp Gln Glu
 65 70 75 80

Arg Val Ala Glu Val Ser Arg Val Arg Val Glu Leu Gln Glu Gln Asn
 85 90 95

Gly Arg Leu Gln Ala Glu Leu Ala Ala Gln Glu Ala Leu Arg Glu Lys
 100 105 110

Ala Ala Ala Leu Glu Arg Gln Leu Lys Val Met Ala Ser Asp His Arg
 115 120 125

Glu Ala Leu Leu Asp Arg Glu Ser Glu Asn Ala Ser Leu Arg Glu Lys
 130 135 140

Leu Arg Leu Arg Glu Ala Glu Ile Ala Arg Ile Arg Asp Glu Glu Ala
 145 150 155 160

Gln Arg Ala Ser Phe Leu Gln Asn Ala Val Leu Ala Tyr Val Gln Ala
 165 170 175

Ser Pro Val Arg Thr Leu Ser Pro Pro Lys
 180 185

<210> 5451

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5451

Pro Met Ala Asn Pro Ile Leu Lys Leu Val Asn Ser Asp Gln Ser Tyr

4835

1 5 10 15
 Phe Thr Tyr Pro Thr Gln Ser Gly Pro Lys Gln Ile Ala Gly Ser Ala
 20 25 30
 Ser Lys Pro Thr Phe Leu Pro Lys
 35 40

 <210> 5452
 <211> 69
 <212> PRT
 <213> Homo sapiens

 <400> 5452
 Leu Ser Arg Lys Leu Leu Leu Leu Arg Phe Lys Asn Glu Asn Arg Cys
 1 5 10 15
 Glu Phe Ser Lys Ile Leu Lys Asn Asn Ser Val Lys Asn Ser Gly Ala
 20 25 30
 Val Lys Glu Ser Trp Met Glu Leu Glu Val Thr Ile Leu Ser Asp Ile
 35 40 45
 Ser Gln Lys Gln Thr Asn Ile Ala Cys Ser Gln Leu Phe Ala Gly Ser
 50 55 60
 Lys Ser Gln Asn Asn
 65

<210> 5453
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)

4836

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5453

Leu Glu Arg Gly Trp Cys Glu Ser Cys Leu Thr Thr Ala Pro Ser Pro
 1 5 10 15

Pro Cys Ala Ala Glu Gly Thr Pro Ala Ala His Arg Phe Gln Glu Ala
 20 25 30

Leu Ser Asp Phe Trp Leu Ala Leu Glu Gln Leu Arg Gly His Ala Ala
 35 40 45

Ile Asp Tyr Thr Gln Leu Gly Leu Arg Phe Lys Leu Gln Pro Gly Arg
 50 55 60

Cys Tyr Thr Met Trp Arg Arg His Ser Ala Ser Trp Gly Ser Gly Gln
 65 70 75 80

Arg Arg Gln Gln Pro Lys Gly Gly His Val Gln Val Ala Gly Gly Ser
 85 90 95

Leu Asn Gly Leu Asp Ser Ala Leu Asp Gln Val Gln Arg Arg Gly Ser
 100 105 110

Leu Pro Xaa Gly Xaa Ser Pro Gly Arg Xaa Xaa Pro Ala Pro Xaa Trp
 115 120 125

Thr

<210> 5454

<211> 84

<212> PRT

<213> Homo sapiens

<400> 5454

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ser Gly Asp Lys Leu
 1 5 10 15

4837

Lys Leu Asp Gln Thr His Leu Glu Thr Val Ile Pro Ala Pro Gly Lys
 20 25 30

Arg Ile Leu Val Leu Asn Gly Gly Tyr Arg Gly Asn Glu Gly Thr Leu
 35 40 45

Glu Ser Ile Asn Glu Lys Thr Phe Ser Ala Thr Ile Val Ile Glu Thr
 50 55 60

Gly Pro Leu Lys Gly Arg Arg Val Glu Gly Ile Gln Tyr Glu Asp Ile
 65 70 75 80

Ser Lys Leu Ala

<210> 5455

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5455

Ile Phe Leu Leu Phe Ser Thr Phe Pro Gln Ile His Val Ser Glu Val
 1 5 10 15

Leu Ser Phe Gly His His Tyr Leu Ser Thr Leu Arg Asn Met Pro Ile
 20 25 30

Asp Glu Val Asn Ile Leu Gly Ile Gln Arg Ile Tyr Gly Asn Val Asp
 35 40 45

Lys Asp Ile Tyr Gln Asp Lys Ala Leu Glu
 50 55

<210> 5456

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

4838

<400> 5456

Glu Thr Thr Lys Gln Thr Gln Lys Lys Glu His Asn Asn Arg Asp Lys
1 5 10 15

Ile Lys Phe Arg Gln Gln Xaa Thr Glu Xaa Ile Leu Lys Thr Arg Ile
20 25 30

Cys Ser Leu Arg Ile Phe Phe Ile Ile Lys Met Ile Phe Gly
35 40 45

<210> 5457

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5457

Asn Pro Phe Ala Ser Gly Gln Phe Gln Thr Arg Ile Leu Ala Cys Pro
1 5 10 15

Ala Ser His Gly Met Pro Leu Pro Tyr Cys Gln Cys Asp Leu Ser Glu
20 25 30

Thr Ala Tyr Leu Ile Leu Ser Phe Pro Gly Ala Ala Ser His Leu Pro
35 40 45

Gln Asp Leu Asn Phe Lys Leu Tyr Ser Ser Pro His Ser Pro Gln Gln
50 55 60

<210> 5458

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

4839

<400> 5458

Val Leu Val Ser Leu Pro Val Pro Thr Gln Ile Ala Ser Gln Asn Phe
 1 5 10 15
 Asp Pro Ala Thr Val Ser Val Ala Thr Xaa His Lys Gly Ala Glu Pro
 20 25 30
 Ser Arg Gly Thr Ala Trp Gly Pro Val Ala Lys Arg Leu Gln Gln Glu
 35 40 45
 Leu Met Thr Leu Met Met Xaa Gly Asp Lys Arg Ile Ser Ala Thr Leu
 50 55 60
 Lys Ala Leu Ser Asn Gly His His Ser
 65 70

<210> 5459

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5459

Pro Lys Val Leu Gly Leu Gln Ala Glu Pro Pro Arg Pro Ala Leu Leu
 1 5 10 15
 Leu Leu Leu Arg Phe Glu Asn Arg Cys Leu Asn Ala Pro Asp Ser Ala
 20 25 30
 Leu Leu Thr Gln Arg Phe Pro His Leu Ile Tyr Ser Val Pro Ala Gln
 35 40 45
 Ser Pro Phe Ser Leu Met Pro Arg Ala Gly Phe Ser Leu Pro Ala Pro
 50 55 60
 Arg Phe Trp Ser Pro Pro Ser Val Leu Gly Pro Ser Cys Pro Leu Ser
 65 70 75 80
 Gly Phe Arg Pro Ser Gln His Ser Leu Ala Ser Leu Pro
 85 90

<210> 5460

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5460

Gly Arg Pro Phe Gly Asn Leu Cys Leu Asn Ser Asn Arg Arg Glu Asn

4840

1 5 10 15
 Val Gln Ala Met Gly Leu Leu Pro Ile Ser Leu Cys Phe Ala Ile Pro
 20 25 30
 Trp Asp Lys Gly Thr Thr Ser Gly Ser Gln Ser Pro Asn Gln Tyr His
 35 40 45
 Arg Val
 50

<210> 5461

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5461

Glu Pro Ser Ser Val His Lys Lys Pro Ile Glu Ser Arg Ser His Phe
 1 5 10 15
 Ile Arg Trp Gln Val Ser Trp Ala Ser Leu Leu Ala Ser Pro Lys Arg
 20 25 30
 Trp Cys Cys Gln Asp Val Leu Glu Val Ile Met Gly His Thr Glu Ala
 35 40 45
 Leu Ser Leu His Arg Leu Lys Cys His Gln Asn Trp Pro Leu Pro Asn
 50 55 60
 Ile Pro His
 65

<210> 5462

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5462

Glu Arg Glu Ile Leu Met Ala Pro Met Ala Ala Arg Ile Thr Ser Leu
 1 5 10 15
 Lys Phe Arg Ala Cys Val Asn Arg Phe Cys Phe Leu Val Ser Glu Arg
 20 25 30
 Phe Ser Tyr Ser Thr Val Leu Ile Cys Phe Ser Lys Pro Ser Asp Leu
 35 40 45

4841

Cys Ile Phe Asn Arg Pro Gln Asn Asn Val Lys Tyr Met Ala
50 55 60

<210> 5463

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5463

Lys Tyr Gln Ile Ile Leu Trp Asn Val Lys Ala Phe Leu Leu Lys Pro
1 5 10 15

Ser Ile Cys Phe Ile Val Ile Ser Val Ala Asn Met Asp Phe Ile Phe
20 25 30

Lys Met Met Phe Tyr Ile Ile Phe Pro Tyr Lys Leu Phe Glu Lys Gln
35 40 45

Phe Asn Asn Ser Met Ile Val Val Ala Pro Leu Asn
50 55 60

<210> 5464

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5464

Trp Gln Ser Asn Phe Phe Cys Leu Phe Pro Arg Glu Ser Trp Glu Tyr
1 5 10 15

Pro Glu Leu Gly Ala Leu Met Ile Leu Phe Gln Leu Trp Cys Leu Lys
20 25 30

Lys Asn Tyr Lys Ser Ile Leu Asn Gly Leu Ser Ser
35 40

<210> 5465

<211> 20

<212> PRT

<213> Homo sapiens

<400> 5465

Glu Cys Lys Leu Val Gln Pro Ser Trp Lys Thr Gly Trp Gln Phe Leu
1 5 10 15

4842

Lys Asp Leu Cys
20

<210> 5466

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5466

Gln Lys Ile Glu Leu Ser Phe Arg Val Ser Lys Lys Val Leu Tyr Ser
1 5 10 15

Cys Cys Thr Pro Gly Ser Trp Gln Gly Gly Asp Phe Cys Pro Arg Glu
20 25 30

Cys Ser Phe Leu Cys Ile Ile Ala Lys Gln Phe Cys Ser Cys Ile Leu
35 40 45

Lys His His Trp Met Asn Phe Phe Pro Leu
50 55

<210> 5467

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4843

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5467

Leu Leu Ile Glu Thr Cys Xaa Val Glu Lys Leu Phe Leu Ser Leu Leu
 1 5 10 15

Ala Ile Gln Val Ser Ser Phe Met Lys Trp Leu Phe Met Ser Phe Ala
 20 25 30

His Phe Tyr Ile Xaa Leu Phe Phe Phe Phe Pro Ala Xaa Leu Xaa Glu
 35 40 45

Leu Tyr Ile Leu Ser Ile Leu Ile Ile Tyr Arg Lys Leu Phe Gly Cys
 50 55 60

His Tyr Leu Leu Leu Val Asn Val Phe Cys Leu Trp Ile Ser Phe Ile
 65 70 75 80

Ile Tyr Xaa

<210> 5468

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5468

Gln Ala Leu Thr Leu Cys Lys Lys Gly Gly Arg Gly His Ser Trp Ala
 1 5 10 15

Gly Gly Val Gly Xaa Gln Asp Gly Cys Pro Ser Leu Pro Ile Phe Ser
 20 25 30

Trp Leu Trp Asp Gln Arg Leu Val Leu Gly Ile Trp Thr Trp Arg Pro
 35 40 45

Arg Ala Ile Gly Glu Gly Leu Lys Pro Val Leu Ser Ala Ala Cys Cys
 50 55 60

Glu Trp Pro Ser Arg Val Met Thr Glu Leu Phe Trp Gly Arg Arg
 65 70 75

4844

<210> 5469

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5469

Ala	Arg	Gly	Ala	Gly	Ala	Ala	Gly	Ser	Arg	Cys	Val	Ser	Gly	Glu	Gly
1				5					10					15	

Ala	Pro	Arg	Leu	Gly	Arg	Arg	Arg	Arg	Gln	Arg	Leu	Glu	Glu	Arg	Glu
			20					25						30	

Arg	Arg	Phe	Pro	Cys	Pro	Gly	Pro	Arg	Glu	Gly	Arg	Pro	Thr	Ala	Ala
		35						40					45		

Met	Glu	Gln	Leu	Ser	Asp	Glu	Glu	Ile	Asp	His	Gly	Ala	Glu	Glu	Asp
	50						55					60			

Ser	Asp	Lys	Glu	Asp	Gln	Asp	Leu	Asp	Lys	Met	Phe	Gly	Ala	Trp	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4845

65		70		75		80									
Gly	Glu	Leu	Asp	Lys	Leu	Thr	Gln	Ser	Leu	Asp	Ser	Asp	Lys	Pro	Met
				85					90					95	
Glu	Pro	Val	Lys	Arg	Ser	Pro	Leu	Arg	Gln	Glu	Thr	Asn	Met	Ala	Asn
			100					105					110		
Phe	Ser	Tyr	Arg	Phe	Xaa	Ile	Tyr	Asn	Leu	Asn	Glu	Ala	Leu	Asn	Gln
		115					120					125			
Gly	Glu	Thr	Val	Asp	Leu	Asp	Ala	Leu	Met	Ala	Asp	Leu	Cys	Ser	Ile
	130					135					140				
Glu	Gln	Glu	Leu	Ser	Ser	Ile	Gly	Ser	Gly	Asn	Ser	Lys	Arg	Gln	Ile
145					150					155					160
Thr	Glu	Thr	Lys	Ala	Thr	Gln	Lys	Leu	Xaa	Xaa	Xaa	Xaa	His	Thr	Leu
			165						170					175	
Xaa	His	Gly	Thr	Leu	Lys	Gly	Leu	Ser	Ser	Ser	Ser	Asn	Arg	Ile	Ala
			180					185					190		
Lys	Pro	Ser	His	Ala	Ser	Tyr	Ser	Leu	Asp	Asp	Val	Thr	Ala	Gln	Leu
		195					200					205			
Glu	Gln	Ala	Ser	Leu	Ser	Met	Asp	Glu	Ala	Ala	Gln	Gln	Ser	Val	Leu
	210					215					220				
Glu	Asp	Thr	Lys	Pro	Leu	Val	Thr	Asn	Gln	His	Arg	Arg	Thr	Ala	Val
225					230					235					240
Ser	Arg	His	Ser	Glu											
			245												

<210> 5470

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5470

Ala	Phe	Val	Asp	Cys	Glu	His	Pro	Ser	Tyr	Ile	Gly	Leu	Tyr	Arg	Met
1				5					10					15	

Ala	Leu	Ser	Lys	Asn	Tyr	Ser	Cys	Ile	Thr	Val	Val	Phe
	20						25					

4846

<210> 5471

<211> 81

<212> PRT

<213> Homo sapiens

<400> 5471

Ala Phe Pro Leu Pro Ser Pro Gly Leu Thr Pro His Pro Ile Pro Gln
1 5 10 15

Lys Val Arg Arg Ala Gly Cys Val Asp Gly Ile Pro Glu Asn Glu Pro
20 25 30

Val Glu Ser Ile Trp Pro Trp His Val Asn Ser Ser Leu Phe Pro Ala
35 40 45

Val Ile Thr Thr Leu Phe Phe Pro Gln Gly Leu Asn Cys Thr Val Lys
50 55 60

Asn Ser Lys Ser Ser Phe Ser Val Leu Leu Leu Val Ala Phe Leu Ile
65 70 75 80

Lys

<210> 5472

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5472

Ser Cys Ser Phe Gly Val Cys Glu Gln Thr Gln Asp Ile Ile Ile Lys
1 5 10 15

His His Pro Ser Ile Lys Gly Leu Phe Tyr Asn Met Cys Cys Glu Ile
20 25 30

Asn Leu Ser Gly Lys Val Trp Cys Asn Glu Leu Phe His Ser Met Val
35 40 45

Ile Asp Ala Val Lys
50

<210> 5473

<211> 105

<212> PRT

<213> Homo sapiens

4847

<400> 5473

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
1 5 10 15
Val Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Cys Phe Phe Phe
20 25 30
Phe Phe Phe Val Val His Asn His Leu Phe Tyr Leu Lys Thr Cys Leu
35 40 45
His Cys Ile Glu His Gln His Arg Cys Asp Gln Glu Thr His Ser Pro
50 55 60
Val Pro Ala Ala Leu Gly Pro Val Tyr Asp Leu Gly Trp Thr Val Ile
65 70 75 80
Phe His Ser Glu Gly Gly Lys Asp Arg Lys Glu Lys Met Ala Ile Ile
85 90 95
Pro Thr Pro Val Gln Glu Ser Glu Gln
100 105

<210> 5474

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5474

Gly Phe Ile Ile His Cys Gln Met Leu Val Pro Ile Lys Gln Cys Cys

4848

1 5 10 15
 Leu Pro Thr Pro Thr Phe Cys Val Xaa Gly Lys Phe Trp Lys Ser Arg
 20 25 30
 Gly Xaa His Ala Lys Arg Leu Ser Thr Gly Leu Phe Leu Val Ser Ala
 35 40 45
 Leu Xaa Xaa Leu Cys Glu Glu Val Ala Ile Tyr Gly Phe Trp Pro Phe
 50 55 60
 Ser Val Asn Met His Glu Gln Pro Ile Ser His His Tyr Tyr Asp Asn
 65 70 75 80
 Val Leu Pro Phe Ser Gly Phe His Ala Met Pro Glu Glu Phe Leu Gln
 85 90 95
 Leu Trp Tyr Leu His Lys Ile Gly Ala Leu Arg Met Gln Leu Asp Pro
 100 105 110
 Cys Glu Asp Thr Ser Leu Gln Pro Thr Ser
 115 120

<210> 5475

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5475

Tyr Gln Ser Ile Ala Leu Tyr Phe Glu Gly Glu Lys Arg Tyr Leu Gln
 1 5 10 15

Ala Gly Lys Phe Phe Leu Leu Cys Gly Gln Tyr Ser Arg Ala Leu Lys
 20 25 30

His Phe Leu Lys Cys Pro Ser Ser Glu Asp Asn Val Ala Ile Glu Met
 35 40 45

Ala Ile Glu Thr Val Gly Gln Ala Lys Asp Glu Leu Leu Thr Asn Gln

4849

50 55 60
 Leu Ile Asp His Leu Leu Gly Glu Asn Asp Gly Met Pro Lys Asp Ala
 65 70 75 80
 Lys Tyr Leu Phe Arg Leu Tyr Met Ala Leu Lys Gln Tyr Arg Glu Ala
 85 90 95
 Ala Gln Thr Ala Ile Ile Ile Ala Arg Glu Glu Gln Xaa Ala Gly Asn
 100 105 110
 Tyr Arg Asn Ala His Asp Val Leu Phe Ser Met Tyr Ala Glu Leu Lys
 115 120 125
 Ser Gln Lys Ile Lys Ile Pro Ser Glu Met Ala Thr Asn Leu Met Ile
 130 135 140
 Leu His Ser Tyr Ile Leu Val Lys Ile His Val Lys Asn Gly Asp His
 145 150 155 160
 Met Lys Gly Ala Arg Met Leu Ile Arg Val Ala Asn Asn Ile Ser Lys
 165 170 175
 Phe Pro Ser His Ile Val Pro Ile Leu Thr Ser Thr Val Ile Glu Cys
 180 185 190
 His Arg Ala Gly Leu Lys Asn Ser Ala Phe Ser Phe Ala Ala Met Leu
 195 200 205
 Met Arg Pro Glu Tyr Arg Ser Lys Ile Asp Ala Lys Tyr Lys Lys Lys
 210 215 220
 Ile Glu Gly Met Val Gln Glu Thr Arg Tyr Ile Leu Xaa
 225 230 235

<210> 5476

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5476

Gly Gly Ala Gly Ala Arg Gly Gly Gly Ala Leu Trp Val Thr Glu Gly
 1 5 10 15

4850

Val Lys Xaa Pro Gly Pro Val Ser Gly Gln Cys Arg Lys Ser Gln Pro
 20 25 30
 His Ala Cys Gly Glu Ile Pro Cys Arg Ala Pro Pro Thr Met Asp Thr
 35 40 45
 Ser Gly Pro Leu Arg Ser Ser Lys Ala Val Ser Ser Phe Pro Leu Gln
 50 55 60
 Gln Arg Gly Val Pro Ser Ser Val Lys Gln Pro Phe Leu Phe Leu Glu
 65 70 75 80
 Ser Tyr Lys Trp Arg Pro Lys Ser Val Pro Met Leu Arg Gln Gly Pro
 85 90 95
 Gly Cys Ser Phe Leu Ser Gly Asn Arg Leu Glu Leu Phe Leu Trp Asp
 100 105 110
 Met Pro Pro Arg Pro Ala Leu Lys Gly Cys Ser Ser Leu Thr Thr Trp
 115 120 125
 Asn Gln Thr Pro Pro Ser Phe Val Tyr Lys Gly Asn Lys Glu
 130 135 140

<210> 5477

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5477

Gly Arg Lys Leu Pro Glu Glu Glu Gly Gly Lys Glu Ile Lys Asn Thr
 1 5 10 15
 Leu Lys Val Cys Gln Lys Lys Glu Leu Tyr Phe Leu Lys His Ser Arg
 20 25 30
 Lys Met Met Ser Phe Gln Leu Leu Ile
 35 40

<210> 5478

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5478

Lys Ser Ile Val Val Leu Val Leu Leu Ser Trp Ile Ile Val Gln Lys
 1 5 10 15

4851

Glu Val Gln Pro Pro Asp Asn His Ile Phe Thr Val Met Asn Gly Lys
20 25 30

Thr Lys Cys Arg Ala Gln Leu Thr Gln Arg Lys Lys Gly Ser Lys Asp
35 40 45

Lys Leu Trp His Asn Leu Ala Ala Lys Phe Leu Pro Ser Thr Asp Phe
50 55 60

<210> 5479

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5479

Cys Ile Ile Leu Arg Gly Phe Phe Arg Ala Val Leu Thr Glu Leu Ser
1 5 10 15

Ile Asn Leu His Ser Ser Gly Arg Leu Leu Lys Leu Ala Gly His Asn
20 25 30

Glu Ile Gly Lys Ser Arg Val Leu Lys Ser Ile Ala Trp Pro Ser Ala
35 40 45

<210> 5480

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5480

Lys Leu Leu Cys Pro His Leu Arg Glu Glu Gly Ser Ser Asn Asn Thr
1 5 10 15

Thr Met Cys Lys Ala Gly Ser Glu Ile Leu Leu Ser Pro Leu Pro Ser
20 25 30

Cys Asn Pro Ser Leu Pro His Leu Ser Cys Met Cys Ile Thr Met Leu
35 40 45

Phe Cys Phe Leu Met Lys Met Arg Leu Cys Ile Leu Phe Asp Asn Leu

4852

50 55 60
 Phe Gln Ile Lys
 65

 <210> 5481
 <211> 101
 <212> PRT
 <213> Homo sapiens

 <400> 5481
 Pro Leu Ser Thr Pro His Pro Leu Arg Arg Gly Pro Arg Ser Tyr Pro
 1 5 10 15

 Thr Val His Leu Pro Arg Gly Cys Ser Glu Leu Ala Met Ala Ala Thr
 20 25 30

 Ala Ala Thr Ala Ala Asp Pro Arg Ser Gly Ser Leu Arg Arg Gly Val
 35 40 45

 Ala Ala Leu Pro Arg Pro Pro Arg Gln Pro Glu Gln Leu Gln Ser Thr
 50 55 60

 Gly Leu Gly Ser Glu Thr Phe Lys Val Lys Gln Ala Glu Trp Gly Asp
 65 70 75 80

 Arg Thr Ile Ser Pro Pro Pro Gly Ala Pro Gly Leu Ser Leu Gly Gly
 85 90 95

 Pro Pro Leu Ala Pro
 100

<210> 5482
 <211> 87
 <212> PRT
 <213> Homo sapiens

 <400> 5482
 Arg Ile His Glu Lys Tyr Glu Ile Trp Phe His Pro Val Arg His Phe
 1 5 10 15

 Asn Arg Glu Asp Gln Asn Val Thr Trp Gln Leu Gly Asn Asn Leu Thr
 20 25 30

 Ser Leu Ala Val Gly Leu Asn Phe Leu Ile Ile Asp Pro Gly Ile Phe
 35 40 45

4853

Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro
 50 55 60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser
 65 70 75 80

Phe Lys Ala Pro Val Leu Ala
 85

<210> 5483

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5483

Thr Pro Ile Met Xaa Asp Glu Phe Val Met Arg Asp Asn Leu Glu Val
 1 5 10 15

Val Phe Thr His Tyr Ala Thr Ile Lys Gly Ser Thr Val Glu Arg Ile
 20 25 30

Leu Thr His Ser Val Thr Asn Gly Thr His Arg Gln His Glu Phe Ala
 35 40 45

Pro Tyr Met Thr Glu Val Ile Gln Gly Phe Leu
 50 55

<210> 5484

<211> 240

<212> PRT

<213> Homo sapiens

<400> 5484

Val Thr Thr Lys Phe Val Arg Thr Ser Thr Asn Lys Val Lys Cys Pro
 1 5 10 15

Val Phe Val Val Arg His Ser Met Glu Asn Leu Phe Glu Lys Asn Lys
 20 25 30

Ile Arg Ala Ser Ile Ser Tyr Lys Trp Thr Pro Glu Gly Arg Arg Leu
 35 40 45

4854

Val Thr Gly Ala Ser Ser Gly Glu Phe Thr Leu Trp Asn Gly Leu Thr
 50 55 60
 Phe Asn Phe Glu Thr Ile Leu Gln Ala His Asp Ser Pro Val Arg Ala
 65 70 75 80
 Met Thr Trp Ser His Asn Asp Met Trp Met Leu Thr Ala Asp His Gly
 85 90 95
 Gly Tyr Val Lys Tyr Trp Gln Ser Asn Met Asn Asn Val Lys Met Phe
 100 105 110
 Gln Ala His Lys Glu Ala Ile Arg Glu Ala Arg Phe Ile His Asn Ile
 115 120 125
 Pro Phe Ser Val Val Pro Ile Val Met Val Lys Leu Phe Ser Lys Cys
 130 135 140
 Ile Leu Gly Ala Glu Met His Gly Leu Cys Gln Phe Leu Gly Asn Phe
 145 150 155 160
 Leu His Pro Ile Asn Thr Ile Phe Phe Phe Val Phe Thr His Ser Pro
 165 170 175
 Phe Cys Trp His Leu Ser Glu Val Val Leu Ser Arg Tyr Gln Pro Leu
 180 185 190
 Gln Tyr Val Arg Asp Val Leu Ser Ala Ala Phe Cys Thr Gly Phe Leu
 195 200 205
 Phe Ser Phe Met Ile Asn Asn Val Tyr Thr Leu Phe Leu Phe Ile Ile
 210 215 220
 Tyr Cys Val Arg Gln Glu Tyr Phe Ile Pro Asn Lys Glu Phe Ser Leu
 225 230 235 240

<210> 5485

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5485

Asn Glu Ala Phe Ile Tyr Val Phe Arg Cys His Cys Ser Leu Ser Glu
 1 5 10 15

Leu Ala Val His Ile Ser Leu Pro Leu Val Leu Ser Thr Asp Phe Phe

4855

20 25 30
 Leu Lys Lys Arg Gly Thr Val Tyr His Ser Ser Thr Val Leu Leu
 35 40 45

 <210> 5486
 <211> 72
 <212> PRT
 <213> Homo sapiens

 <400> 5486
 Tyr Glu Ala Lys Thr Lys Ser Trp Lys Ser Glu Gln Val Gln Trp Phe
 1 5 10 15
 Gly Arg Gly Asn Glu Glu Gln Arg Arg Cys Gln Pro Leu Leu Gln Thr
 20 25 30
 Leu Trp Tyr His Trp Phe Gly Arg Lys Asn Asn His His Leu Arg Gly
 35 40 45
 Pro Val Gly Lys Pro Cys Pro His Gly Lys Ala Ile Phe Phe Arg Leu
 50 55 60
 His Phe Ser Trp Tyr Tyr Val Tyr
 65 70

 <210> 5487
 <211> 75
 <212> PRT
 <213> Homo sapiens

 <400> 5487
 Leu Thr Cys Tyr Val Thr Val Ile Tyr Leu Ser Ile Ser Asn Pro Lys
 1 5 10 15
 Ala Cys Gln Lys Ala Phe Phe Arg Glu Asn His Phe Thr Phe Val Val
 20 25 30
 Lys Leu Leu Ile Ala Thr Leu Lys Asn Ile His Val Cys Ile His Arg
 35 40 45
 Asn Ile Phe Ser Gln Tyr Leu Tyr Asp Ser Leu Thr Val Ile Val Leu
 50 55 60
 Ser Glu Leu Leu Cys Ala Ser Asp Lys Asn Lys
 65 70 75

4856

<210> 5488

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5488

Gly Pro Arg Arg Thr Leu Ala Ala Leu Pro Leu Ser Arg Val Ser Ala

1 5 10 15

Gly Ser Gly Ser Ala Ser Pro Gly Gln Leu Arg Glu Ser Leu Ala Arg

20 25 30

Ile Pro Ala Ser Thr Leu Phe Leu Ala Ala Lys Val Thr Val Pro Phe

35 40 45

Ala Pro Ala Leu Ser Asp Pro Pro Arg Ile Pro Arg His Arg Glu Thr

50 55 60

Arg Lys Gly Xaa Gly Ser Gly Gly Gly Pro Gly Arg Ile Ala Leu Gln

65 70 75 80

Ala Ala Leu Arg Gly Pro Ala Pro Ala Thr Ala Leu Thr Ser Glu Arg

85 90 95

Arg Asn Trp Gly Glu Xaa Phe Lys Ser Leu Arg Xaa Arg Cys

100 105 110

<210> 5489

<211> 122

<212> PRT

<213> Homo sapiens

4857

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5489

Ser	Gly	Arg	Gly	Ser	Pro	Gln	Trp	Thr	Arg	Leu	Pro	His	Pro	Ala	Glu
1				5					10					15	

Val	Gly	Gly	Gly	His	Glu	Glu	Met	Gly	Cys	Arg	Leu	Leu	Ser	Glu	Leu
				20				25					30		

Pro	Ser	Thr	Asn	Gly	Val	Gly	Val	Xaa	Asp	Leu	Pro	Arg	His	Xaa	Phe
			35				40					45			

Phe	Thr	Phe	Gly	Lys	Met	Glu	Gly	Asp	Gly	Gly	Gly	Ile	Pro	Cys	Ser
	50					55					60				

Leu	Cys	Cys	Ala	Asp	Thr	Leu	Glu	Lys	Xaa	Leu	Pro	Ser	Val	Glu	Gln
65					70					75					80

Asn	Pro	Leu	Trp	Arg	Asn	Ala	Ala	Val	Leu	Asp	Leu	Glu	Ala	Glu	Gly
				85					90					95	

Val	Ser	Ile	Leu	Gly	Ile	Cys	Leu	Pro	Leu	Pro	Ile	Trp	Met	Pro	His
			100					105					110		

Leu	Ala	Val	Ser	Leu	Met	Val	Ile	Leu	Phe
		115					120		

<210> 5490

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

4858

<400> 5490

Arg Leu Phe Ser Leu Xaa Gly Glu Cys His Lys Leu Leu Phe Cys Ile
 1 5 10 15
 Ser Thr Ala Cys Gln Ala Leu Ser Ala Ser Ser Asn Leu Ala Leu Thr
 20 25 30
 Ala Thr Gly Ser Arg Cys Pro Ile Phe Gln Ser Lys Asp Arg Gly Val
 35 40 45
 Lys Phe Lys Tyr Arg Phe Ser Asp Ile Asn Leu Cys Asp Asp Leu Ile
 50 55 60
 Glu Ala Gly Phe Ser Ser Ile Thr Val Leu Val Pro Ser Leu Leu Tyr
 65 70 75 80
 Gly Asn Glu Asn Lys Glu Thr Tyr Phe Leu Ala Cys Leu Lys Lys Lys
 85 90 95
 Lys

<210> 5491

<211> 294

<212> PRT

<213> Homo sapiens

<400> 5491

Thr Tyr Thr Ile His Ala Asp Gly Thr Gly Ser Asn Met Asn Ile Asn
 1 5 10 15
 Asp Gly Gly Arg Arg Arg Phe Glu Asp Asn Glu His Thr Leu Arg Ile
 20 25 30
 Tyr Pro Gly Ala Ile Ser Glu Gly Thr Ile Tyr Cys Pro Ile Pro Ala
 35 40 45
 Arg Lys Asn Ser Thr Ala Ala Glu Val Ile Glu Ser Leu Ile Asn Lys
 50 55 60
 Leu His Leu Asp Lys Thr Lys Cys Tyr Val Leu Ala Glu Val Lys Glu
 65 70 75 80
 Phe Gly Gly Glu Glu Trp Ile Leu Asn Pro Thr Asp Cys Pro Val Gln
 85 90 95
 Arg Met Met Leu Trp Pro Arg Met Ala Leu Glu Asn Arg Leu Ser Gly
 100 105 110

4859

Glu Asp Tyr Arg Phe Leu Leu Arg Glu Lys Asn Leu Asp Gly Ser Ile
 115 120 125
 His Tyr Gly Ser Leu Gln Ser Trp Leu Arg Val Thr Glu Glu Arg Arg
 130 135 140
 Arg Met Met Glu Arg Gly Phe Leu Pro Gln Pro Gln Gln Lys Asp Phe
 145 150 155 160
 Asp Asp Leu Cys Ser Leu Pro Asp Leu Asn Glu Lys Thr Leu Leu Glu
 165 170 175
 Asn Leu Arg Asn Arg Phe Lys His Glu Lys Ile Tyr Thr Tyr Val Gly
 180 185 190
 Ser Ile Leu Ile Val Ile Asn Pro Phe Lys Phe Leu Pro Ile Tyr Asn
 195 200 205
 Pro Lys Tyr Val Lys Met Tyr Asp Asn His Gln Leu Gly Lys Leu Glu
 210 215 220
 Pro His Ile Tyr Ala Val Ala Asp Val Ala Tyr His Ala Met Leu Gln
 225 230 235 240
 Arg Lys Lys Asn Gln Cys Ile Val Ile Ser Gly Glu Ser Gly Ser Gly
 245 250 255
 Lys Thr Gln Ser Thr Asn Phe Leu Ile His His Leu Thr Ala Leu Ser
 260 265 270
 Gln Lys Gly Phe Ala Ser Gly Val Glu Gln Ile Ile Leu Gly Ala Gly
 275 280 285
 Pro Val Leu Glu Ala Val
 290

<210> 5492

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5492

Pro Tyr Leu Arg Arg Arg Asp Thr Gln Asp Lys Leu Gln Val Val Ser
 1 5 10 15
 Arg Phe Thr Phe Tyr Phe Glu Asp Pro Leu Leu Pro Gln Val Pro Asp
 20 25 30

4860

Leu Glu Asn Glu Pro Pro Leu Ser Gly Leu Ala Ser Pro Gln Pro Arg
35 40 45

His Arg Leu Ala Gln Gly Ser Ser Ser Trp Leu Ser Trp Asn Leu His
50 55 60

Phe Leu Thr Thr Arg Lys Arg Ser Pro Glu Leu Thr Lys Asn Asn Ile
65 70 75 80

Leu Leu Thr Trp Glu
85

<210> 5493

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4861

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5493

His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
1				5				10					15		

Gly	Ser	Thr	His	Ala	Ser	Gly	Pro	Thr	Ser	Pro	Pro	Ala	Arg	Met	Ala
			20				25					30			

Pro	Pro	Gly	Pro	Ala	Ser	Ala	Leu	Ser	Thr	Ser	Ala	Glu	Pro	Leu	Ser
		35					40					45			

Arg	Ser	Xaa	Phe	Arg	Lys	Phe	Leu	Leu	Met	Leu	Cys	Ser	Leu	Leu	Thr
	50					55					60				

Ser	Leu	Tyr	Val	Phe	Tyr	Cys	Leu	Ala	Glu	Arg	Cys	Gln	Thr	Leu	Ser
65					70					75					80

Gly	Pro	Val	Val	Gly	Leu	Ser	Gly	Gly	Gly	Glu	Glu	Ala	Gly	Ala	Pro
				85				90						95	

Gly	Gly	Gly	Val	Leu	Ala	Gly	Pro	Arg	Glu	Leu	Ala	Val	Trp	Pro	Ala
			100					105					110		

Ala	Ala	Gln	Arg	Lys	Arg	Leu	Leu	Gln	Leu	Pro	Gln	Trp	Arg	Xaa	Arg
		115					120					125			

Arg	Xaa	Pro	Ala	Pro	Arg	Xaa	Asp	Gly	Glu	Glu	Ala	Ala	Trp	Glu	Glu
	130					135					140				

Glu	Ser	Pro	Gly	Leu	Ser	Gly	Val	Arg	Ala	Ala	Pro	Gly	Pro	Glu	Ala
145					150					155				160	

Pro	Trp	Pro	Arg	Pro	Arg	Arg	Gly	Pro	Trp	Arg	Cys	Ser	Trp	Thr	Lys
				165					170					175	

Ala	Ala	Ser	Ser	Cys	Arg	Ser	Ile	Ile	Ile	Gly	Xaa	Lys	Lys	Gly	Gly
			180					185					190		

Thr	Arg	Ala	Leu	Leu	Glu	Phe	Leu	Arg	Val	His	Pro	Asp	Val	Arg	Ala
		195					200					205			

Val	Gly	Ala	Glu	Pro	His	Phe	Phe	Asp	Arg	Ser	Tyr	Asp	Lys	Gly	Leu
	210					215					220				

4862

Ala Trp Tyr Arg Asp Leu Xaa Pro Arg Thr Leu Glu Gly Gln Ile Thr
 225 230 235 240

Met Glu Lys Lys Xaa Ser Tyr Ser Ser Ser Gly Lys Pro Pro Arg Ala
 245 250 255

Ser Trp Ala Cys Ser Lys Asp Asn Lys Leu Ile Arg Trp Leu Xaa Gly
 260 265 270

Asn Arg

<210> 5494

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5494

Gly Val Gly His Ser Glu Leu Thr Ser Met Phe Asn Thr Ile Thr Arg
 1 5 10 15

Asp Thr Glu Thr Ala Asn Gln Asp Lys Lys Leu Thr Thr Ser Arg Cys
 20 25 30

Arg Gln Leu Phe Pro Arg Cys Gln Asn Lys Thr Ser Tyr His Asp Glu
 35 40 45

Ala Pro Thr Pro Leu Asn Leu Pro Ser Ser Cys Leu Pro Leu Ser Leu
 50 55 60

Ala Gly
 65

<210> 5495

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5495

Leu Asp Arg Ile Phe Ser Gly Gly Ser Leu Val Asp Phe Glu Gly Lys
 1 5 10 15

Thr Phe Trp Val Tyr His Val Leu Ile Leu Glu Thr Gly Ser Asp Glu
 20 25 30

Ser Ser Pro Val Val Pro Leu Ser Asn Ser Ile Lys Val Gly Ile Ser
 35 40 45

4863

Lys Glu His Leu Ile Gln Gly Ala Gly Ala Asp Phe Ile Asp Ser Arg
 50 55 60
 Glu Thr Cys Phe Ser Ala Tyr Ser Ser Leu Pro Ser Gly Ala Ser Leu
 65 70 75 80
 Leu Thr Ile Thr Ala Ser Leu Arg Cys Arg Trp Val Phe Leu Lys Gln
 85 90 95
 Glu Thr Val Ser Pro Leu Leu Pro Gln Leu Leu Gly Val Gly Ile Ser
 100 105 110
 Asp Thr Gly Asp Gly
 115

<210> 5496

<211> 171

<212> PRT

<213> Homo sapiens

<400> 5496

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
 1 5 10 15
 Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
 20 25 30
 Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
 35 40 45
 Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
 50 55 60
 Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
 65 70 75 80
 Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
 85 90 95
 Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
 100 105 110
 Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
 115 120 125
 Pro Val Ile Phe Gly His Glu Leu Val Lys Ala Gly Leu Ala Leu Ala
 130 135 140

4864

Leu Phe Gly Gly Ser Gln Lys Tyr Ala Asp Asp Lys Asn Arg Ile Pro
145 150 155 160

Ile Arg Gly Asp Pro His Ile Leu Val Gly Phe
165 170

<210> 5497

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5497

Ser Val Lys Cys Arg Leu Ser Ser Phe Ile Met Asn Val Ile Val Arg
1 5 10 15

Asn Thr Leu Thr Phe Ser Asn Phe
20

<210> 5498

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5498

Gly Phe Ser Gln Arg Arg Val Cys Ser Gly Arg Cys Cys Gly Gln Gly
1 5 10 15

Ser Arg Gln Arg Pro Leu Ser Ser Arg Leu Ala Pro Ala Leu Arg Gly
20 25 30

His Gly Gly Ala Glu Ala Thr Arg Ala Gly Pro Glu Pro Gly Gly Pro
35 40 45

Trp Leu Arg Phe Ser Cys Thr Glu Lys Leu Asn Pro Ala Arg Ser Asp
50 55 60

Val His Phe Met Val Pro Thr Pro Leu Gly
65 70

<210> 5499

<211> 153

<212> PRT

<213> Homo sapiens

<220>

4865

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5499

Thr	Cys	Tyr	Ala	Thr	Pro	Cys	Leu	Val	Trp	Met	Gly	Arg	Trp	Pro	Pro
1				5				10						15	

Ala	Val	Thr	Leu	Thr	Cys	Arg	Pro	Thr	Ala	Thr	Val	Pro	Trp	Ser	Pro
			20					25					30		

Gly	Thr	Thr	Ser	Ala	Glu	Thr	Thr	Ala	Leu	Ala	Arg	Ser	Leu	Cys	Ser
			35				40					45			

Ala	Gly	Thr	Gln	Pro	Ala	Pro	Ser	Thr	Thr	Ser	Leu	Pro	Ser	Trp	Arg
	50					55					60				

Ser	Ala	Ala	Pro	Leu	Ala	Trp	Pro	Leu	Gln	Leu	Ser	Gly	Gln	Trp	Trp
65					70					75					80

Ser	Ala	Gly	Ala	Cys	Phe	Leu	Asp	Leu	Pro	Ser	Leu	Ala	Leu	Cys	Trp
				85					90					95	

Pro	Gly	Asp	Ser	Gly	Asp	Ala	Ser	Gly	Gln	Lys	Pro	Gly	Ala	Glu	Gln
			100					105					110		

Thr	Leu	Gly	Cys	Ser	Gly	Trp	Ala	Gln	Ala	Xaa	Phe	Arg	Leu	Ala	Ala
		115					120					125			

Thr	Val	Arg	Xaa	Pro	Xaa	Arg	Pro	Gln	Ala	Pro	Ser	Xaa	Arg	Ala	Phe
		130				135					140				

Leu	Pro	Leu	His	Phe	Pro	Thr	Ile	Glu
145					150			

4866

<210> 5500

<211> 142

<212> PRT

<213> Homo sapiens

<400> 5500

Trp	Thr	Trp	Ser	Thr	Pro	Ala	Ser	Ala	Arg	Ser	Ser	Gly	Thr	Thr	Thr
1				5					10					15	

Trp	Pro	Pro	Ala	Pro	Ala	Ala	Ala	Leu	His	Leu	Arg	Leu	Arg	Gly	Val
			20					25					30		

Gln	Arg	Arg	Arg	Ile	Leu	Thr	Met	Glu	Pro	Val	Leu	Gly	Gly	Thr	Pro
			35				40					45			

Tyr	Leu	Asp	Lys	Phe	Val	Val	Ser	Ser	Ser	Arg	Gln	Gly	Gln	Gly	Ser
	50						55				60				

Gly	Gln	Met	Leu	Trp	Glu	Cys	Leu	Arg	Arg	Asp	Leu	Gln	Thr	Leu	Phe
65					70					75					80

Trp	Arg	Ser	Arg	Val	Thr	Asn	Pro	Ile	Asn	Pro	Trp	Tyr	Phe	Lys	His
				85					90					95	

Ser	Asp	Gly	Ser	Phe	Ser	Asn	Lys	Gln	Trp	Ile	Phe	Phe	Trp	Phe	Gly
			100					105					110		

Leu	Ala	Asp	Ile	Arg	Asp	Ser	Tyr	Glu	Leu	Val	Asn	His	Ala	Lys	Gly
			115				120					125			

Leu	Pro	Asp	Ser	Phe	His	Lys	Pro	Ala	Ser	Asp	Pro	Gly	Ser
	130					135					140		

<210> 5501

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

4867

<400> 5501

Gln Arg Glu Asn Arg Pro Cys Leu Lys Glu Arg Phe Leu Val Tyr Ala
 1 5 10 15
 Ser Gly Leu Trp Ala Gly Xaa Ala Thr Ile Pro Tyr Xaa Arg Gln Ser
 20 25 30
 Ser Ala Pro Ala Ala Lys Leu Ala Cys Phe Thr Gly Lys Leu Leu Glu
 35 40 45
 Glu Trp Leu Leu Met Arg Phe Gln Asn Glu Val Leu Ala Asn Thr Ala
 50 55 60
 His Gly His Pro Gly Phe Ser Gln Trp Leu Pro Phe Leu Leu Ala Ser
 65 70 75 80
 Leu Asn Arg Gly Glu Ser Leu Thr Ser Leu Leu Leu Ser Lys Pro Phe
 85 90 95
 Thr Leu Asn Gly
 100

<210> 5502

<211> 165

<212> PRT

<213> Homo. sapiens

<400> 5502

Lys Trp Asp Glu Pro Trp Tyr Asn Gln Lys Thr Glu His Gln Arg Asn
 1 5 10 15
 Ser Ser Lys Ile Leu Arg Phe Ile Ser Asp Phe Leu Ala Phe Leu Val
 20 25 30
 Leu Tyr Asn Phe Ile Ile Pro Ile Ser Leu Tyr Val Thr Val Glu Met
 35 40 45
 Gln Lys Phe Leu Gly Ser Phe Phe Ile Gly Trp Asp Leu Asp Leu Tyr
 50 55 60
 His Glu Glu Ser Asp Gln Lys Ala Gln Val Asn Thr Ser Asp Leu Asn
 65 70 75 80
 Glu Glu Leu Gly Gln Val Glu Tyr Val Phe Thr Asp Lys Thr Gly Thr
 85 90 95
 Leu Thr Glu Asn Glu Met Gln Phe Arg Glu Cys Ser Ile Asn Gly Met
 100 105 110

4868

Lys Tyr Gln Glu Ile Asn Gly Arg Leu Val Pro Glu Asp Gln His Gln
115 120 125

Thr Leu Gln Lys Glu Thr Tyr Leu Ile Leu Val Val Tyr Pro Ile Leu
130 135 140

Thr Thr Tyr Pro Ile Leu Gln Pro Val Pro Leu Ser Glu Pro Val Leu
145 150 155 160

Lys Met Lys Leu Asn
165

<210> 5503

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5503

Arg Leu Pro Ser Glu Val Ser Asp His Ser Leu Leu Leu Lys Gln Leu
1 5 10 15

Leu Leu Phe Leu Tyr Ser Ile Glu His Pro Gly Ile Asp Ile Ile Leu
20 25 30

Ser Ile Ser Ile Ser Pro Leu Leu Val Tyr Leu Ile Ile Asn Pro Val
35 40 45

Ser Arg Ala Val Phe Ile
50

<210> 5504

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4869

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5504

His	Glu	Gly	Lys	Cys	Phe	Cys	Arg	Lys	Ser	Thr	Leu	Thr	Thr	His	Leu
1				5					10					15	
Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys
			20					25					30		
Phe	Phe	Ser	Arg	Leu	Ser	Tyr	Leu	Thr	Val	His	Tyr	Arg	Thr	His	Ser
		35					40					45			
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Xaa	Cys	Gly	Lys	Thr	Phe	Tyr	Leu
	50					55					60				
Asn	Ser	Ala	Leu	Met	Arg	His	Gln	Arg	Val	His	Thr	Gly	Glu	Lys	Pro
65					70					75					80
Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys	Leu	Phe	Ser	Gln	Leu	Ser	Tyr	Leu
			85					90						95	
Thr	Ile	His	His	Arg	Thr	His	Ser	Gly	Val	Lys	Pro	Tyr	Glu	Cys	Ser
			100					105						110	
Glu	Cys	Gly	Lys	Thr	Phe	Tyr	Gln	Asn	Ser	Ala	Leu	Cys	Arg	His	Arg
		115					120					125			
Arg	Ile	His	Lys	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Tyr	Ile	Cys	Gly	Lys
	130					135					140				
Phe	Phe	Ser	Gln	Met	Ser	Tyr	Leu	Thr	Ile	His	His	Arg	Ile	His	Ser
145					150					155					160
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Thr	Phe	Xaa	Gln
			165					170						175	
Asn	Xaa	Ala	Leu	Asn	Arg	His	Gln	Arg	Thr	His	Thr	Gly	Glu	Lys	Ala
			180					185					190		
Tyr	Glu	Cys	Tyr	Glu	Cys	Gly	Lys	Cys	Phe	Ser	Gln	Met	Ser	Tyr	Leu
		195					200					205			
Thr	Ile	His	His	Arg	Ile	His	Ser	Gly	Glu	Asn	Leu				
	210				215					220					

<210> 5505

<211> 111

<212> PRT

4870

<213> Homo sapiens

<400> 5505

Lys Arg Glu Phe Ala Gly Glu Lys Arg Leu Asp Leu Val Glu Asp Cys
 1 5 10 15

Leu Gly Trp Gly Ser Thr Thr Trp Arg Phe Gln Ile His Leu Ala Cys
 20 25 30

Lys Gln Gln Ser Tyr Pro Tyr Leu Pro His Val Asn Val Ile Ala Arg
 35 40 45

Val Thr Leu Asp Lys Leu Gln Thr Asp Gly Pro Ser Ser Ser Pro Gly
 50 55 60

Ala Pro Trp Met Ala Ala Leu Leu Gln Ser Val Ser Cys Phe Trp Asn
 65 70 75 80

Ser Leu Leu Gly Asn Phe Lys Glu Glu Lys Lys Asn Leu Asn Cys Val
 85 90 95

Glu Leu Leu Tyr Leu Leu Leu Phe Phe Phe Glu Lys Ile Asn Leu
 100 105 110

<210> 5506

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5506

Thr Lys Ser Ser Ala Leu Gly Pro Arg Ala Pro Ser Leu Arg Arg His
 1 5 10 15

Val Leu Ile His Asn Thr Leu Gln Gln Leu Gln Ala Ala Leu Arg Leu
 20 25 30

Ala Pro Ala Pro Ala Leu Pro Pro Glu Pro Leu Phe Leu Gly Glu Glu
 35 40 45

4871

Asp Phe Ser Leu Ser Ala Xaa Ile Gly Ser Ile Leu Arg Glu Leu Asp
 50 55 60

Thr Ser Met Asp Gly Thr Glu Pro Pro Gln Asn Pro Val Thr Pro Leu
 65 70 75 80

Gly Leu Gln Asn Glu Val Pro Pro Gln Pro Asp Pro Val Phe Leu Glu
 85 90 95

Ala Leu Ser Ser Arg Tyr Leu Gly Asp Ser Gly Leu Asp Asp Phe Phe
 100 105 110

Leu Asp Ile Asp Thr Ser Ala Val Glu Lys Glu Pro Ala Arg Ala Pro
 115 120 125

Pro Glu Pro Xaa His Asn Leu Phe Cys Ala Pro Gly Ser Trp Glu Trp
 130 135 140

Asn Glu Leu Asp His Ile Met Glu Ile Ile Leu Gly Ser
 145 150 155

<210> 5507

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5507

Lys Met Met Arg Val His Gln Asp Ser Thr Xaa Glu Lys Leu Pro Phe
 1 5 10 15

4872

Phe Pro Leu Xaa Ala Asp Trp Lys Ala Ser Arg Ala Xaa Leu Cys Ala
 20 25 30

Leu Phe Arg Xaa Thr His Lys Asp Leu Gly Lys Cys Lys
 35 40 45

<210> 5508

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5508

Asn Phe Ile Phe Ile Leu Lys Leu His Leu Leu Lys Ser Leu Lys Ile
 1 5 10 15

Ile Ser Val His Val Leu Asn Thr Ser Leu Tyr Ser Val Ile Asn Thr
 20 25 30

Pro Asp Phe Phe Pro Leu Thr Leu Cys His Pro Ser Val Cys Leu Val
 35 40 45

Ser Ser Met Pro Cys Gly Arg Gly Val Ser Leu Ser Ser Ala Gln Glu
 50 55 60

Gly Asn Phe Lys His Ile Cys Thr Ile Lys Phe Gln Ile Lys His Phe
 65 70 75 80

Lys Lys Gly Ala Gln Thr Arg Asn Thr Cys Ser Ser Glu Ile Pro Cys
 85 90 95

Cys Asn Cys Asn Ser Cys His Ile Tyr Pro Val Tyr Glu Glu Lys Phe
 100 105 110

Leu Gln Phe Ser His Cys Pro Ser Val Leu Leu Pro Gly Cys Ala Leu
 115 120 125

Leu Leu Glu Leu Lys Tyr Glu Ile Phe Thr Leu Lys Tyr Val Asn Val
 130 135 140

Lys Val Asp Arg Ile Lys Phe Xaa Asn Pro Leu Arg Phe Ile
 145 150 155

4873

<210> 5509

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5509

Ile Thr Gly Met Ser His Cys Ala Arg Pro Ser Phe Leu Phe Asn Lys
1 5 10 15

Cys Met Tyr Leu Lys Ala Ile Ala Phe Ser Arg Asn Leu Phe Leu Cys
20 25 30

Ser Gly Arg Ala Tyr Lys Leu Cys Leu Gln Leu Phe Phe Phe Ser Lys
35 40 45

Gly Asn Thr Ser Gly Arg
50

<210> 5510

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5510

Ser Thr Arg Gln Pro Asn Pro Phe Gly Ala Thr Ile Asp Cys Tyr Lys
1 5 10 15

Ala His Pro Trp Val Lys Ile Tyr Tyr Leu Gln Leu Tyr Leu Met Thr
20 25 30

Leu Ile Leu Pro Ser Ser Tyr Ile Lys Phe Gly Xaa Val Phe Tyr Xaa
35 40 45

Ile Ile Phe
50

4874

<210> 5511

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5511

Gln Pro Arg Arg Pro Pro Arg Cys Pro Leu Pro Arg Gly Pro Trp Gly

1

5

10

15

Arg Pro Arg Ala Thr Gly Pro Gln Leu Gly Cys Ile Ser Ser Thr Ser

20

25

30

Cys Pro Ala Pro Thr Ser Ser Ser Ala Arg Cys Pro Ala Phe Ser Arg

35

40

45

Pro Arg Ala Gly Ile Pro Ala Gly Leu Val Ala Gly Gly Gly Leu Gly

50

55

60

Gly Pro Gly Leu Gly Pro Glu Pro His Phe His Arg Cys Leu Pro His

65

70

75

80

Pro Leu Leu Leu Leu Pro Ala Pro Arg Ala Pro Arg Val Gln Asp Pro

85

90

95

Leu Ala Arg Gly Arg Leu Arg His Leu Glu Leu Ile Val Pro Xaa Ser

100

105

110

Xaa Ala Ala Leu Ala Leu Ala Ser

115

120

<210> 5512

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

4875

<400> 5512

Ala Ile Leu Lys Gln Thr Pro Leu Lys Lys Gln Thr Asn Lys Lys Asn
 1 5 10 15

Ile Asp Phe Phe Ile Ser Phe Glu Leu Pro Pro Phe Tyr Tyr Val Met
 20 25 30

Asn Met Cys Cys Phe Cys Asn Arg Lys Ile Ile Lys Leu Lys Phe Gln
 35 40 45

Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60

Lys Lys Xaa
 65

<210> 5513

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5513

Asn Ala Thr Ile Ile Val Asn Lys Ile Pro Val Asn Thr Cys Cys Leu
 1 5 10 15

Cys Cys Leu Ser Pro Asp Ser Arg Ala Glu Phe Ser Phe Cys Thr Val
 20 25 30

Ala Leu Ala Leu Thr Val Thr Ala Leu Gln Gln Ala Pro Ser Pro Arg
 35 40 45

Pro Phe Arg Ser Ile Pro Gln Arg Val Leu His Val Ser Ser Pro Met
 50 55 60

Ser Ser Leu Gly Ser Ser Val Lys Thr His Ser Ser Pro Ala Gly Val
 65 70 75 80

Leu Arg Asp Ala Arg Ser Leu Trp Gly Gln Phe Gly Xaa Ile Asp Ile
 85 90 95

His Val

4876

<210> 5514

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5514

Gly Lys Lys Arg Lys Lys Leu Tyr Phe Phe Ser Ile Tyr Leu Leu Gln
 1 5 10 15

Arg Thr Leu Cys Phe Leu Ser Cys Lys Thr Ser Tyr Phe Ser Tyr Tyr
 20 25 30

Cys Thr Leu Glu Lys Ser Cys Arg Phe Met Leu Asn Ser Tyr Leu Arg
 35 40 45

Thr Ile Val Ile Ser Ser Lys Arg His Glu Leu Ser Ser
 50 55 60

<210> 5515

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5515

Phe Lys Ala Leu Asn Ser Lys Ser Ile Lys Thr Tyr Leu Gly Glu Thr
 1 5 10 15

Gly Ile Met Gln Phe Ile Thr Cys Ile His Ser Ser Ile Gln Lys Tyr
 20 25 30

Gly Xaa Ile Trp Tyr Leu Lys Leu Lys Cys Gly Ser Lys Ala Thr Lys
 35 40 45

Ser Glu Thr Trp Xaa
 50

4877

<210> 5516

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5516

Phe Ala Asn Leu Lys Ile Gly Thr Pro Leu Gly Met Pro Asp Arg Arg
1 5 10 15

Val Leu His Ile Cys Arg Gly Arg Gln Glu Leu Asn Ile Thr Thr Ser
20 25 30

Phe

<210> 5517

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5517

Ala Thr Glu Pro Ser Leu Leu Xaa Ser Phe Xaa His Asn Phe Cys Phe
1 5 10 15

4878

Ile His Asn Phe Ser Ser Ile Glu Ser Arg Ile Lys Thr Trp Val Leu
 20 25 30

Ser Leu Xaa Leu Ser Val Glu Ala Tyr Glu Cys Leu Leu Lys Ile Met
 35 40 45

Phe Leu Asn Ala Leu Asn Ile Xaa Asp Tyr Lys Gly Ile Leu Leu Phe
 50 55 60

Glu Ile Arg Xaa
 65

<210> 5518

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5518

Thr Asn Arg Pro Leu Ser Phe Pro Gln Phe Ile Thr Phe Ser Leu Phe
 1 5 10 15

Thr Leu Cys Pro Met Thr Phe Leu His His Trp Leu Leu Phe Ile Lys
 20 25 30

Pro Thr Ile Lys Asn Ile Gln Val Gln Leu Phe Leu Trp Ala Phe Ile
 35 40 45

Ser Leu Trp Xaa Pro Ser Cys Arg Val Lys Leu Ile Leu Asn Lys Cys
 50 55 60

Ala Cys Phe Ser Leu Ala Asn Leu Ser Phe Val Ile Glu Ile Ser Ala
 65 70 75 80

Leu Asn Leu Gly Trp Ile Glu Gly Asn Ile Cys Ser Pro Leu His
 85 90 95

<210> 5519

<211> 41

<212> PRT

<213> Homo sapiens

4879

<400> 5519

Asp Gly Ile Val His Phe Leu Val Leu Ser Gln Val Gln Pro Val Cys
 1 5 10 15

Gly Asn Leu Ser Leu Pro Thr Ser Phe Val Ala Leu Val Cys Ser Gly
 20 25 30

Gln Lys Val Arg Ala Pro Leu Leu Thr
 35 40

<210> 5520

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5520

Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
 1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
 20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
 35 40 45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa
 50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
 65 70 75 80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
 85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
 100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
 115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
 130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr

4880

145

150

155

<210> 5521

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5521

Ile Lys Val Asp Gly Lys Ala Ile Ser Ile Arg Ile Glu Thr Glu Ser
 1 5 10 15

Tyr Asn Thr Val Cys Thr Thr Leu Arg Trp Ile His Ser Ala His Ala
 20 25 30

Leu Asn Val Tyr Ile Val Leu Ser Val Gly Ser Gly Thr Phe Ser Leu
 35 40 45

Val Phe Leu Lys Asn Tyr Lys Ser Glu Glu Lys Ala Ser Ile Ile Asn
 50 55 60

Lys Thr Asn Asn Cys Phe Thr Ala Leu Arg Asn Asn Asn Tyr Asn Val
 65 70 75 80

Tyr Tyr Leu Lys Met Gly Glu Ile Val Cys Ser Met Lys
 85 90

<210> 5522

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5522

Ile Ser His Ala Ile Ile Trp Val Cys Cys Ile Lys Ser Ser Thr Thr
 1 5 10 15

Leu Trp Phe Ser His Cys Ile Ile Lys His Glu Ala Ser Arg Ile Lys
 20 25 30

Ser Tyr Cys Phe Thr Cys Leu Leu Ser Pro Leu Cys His Phe Thr Phe
 35 40 45

<210> 5523

4881

<211> 169

<212> PRT

<213> Homo sapiens

<400> 5523

His Glu Glu Lys Thr Thr Tyr Asp Ser Ala Glu Glu Glu Asn Lys Glu
 1 5 10 15

Asn Leu Tyr Ala Gly Lys Asn Thr Lys Ile Lys Arg Ile Tyr Lys Thr
 20 25 30

Val Ala Asp Ser Asp Glu Ser Tyr Met Glu Lys Ser Leu Tyr Gln Glu
 35 40 45

Asn Leu Glu Ala Gln Val Lys Pro Cys Leu Glu Leu Ser Leu Gln Ser
 50 55 60

Gly Asn Ser Thr Asp Phe Thr Thr Asp Arg Lys Ser Ser Lys Lys His
 65 70 75 80

Ile His Asp Lys Glu Gly Thr Ala Gly Lys Ala Lys Val Lys Ser Lys
 85 90 95

Arg Arg Leu Glu Lys Glu Glu Arg Lys Met Glu Lys Ile Arg Gln Leu
 100 105 110

Lys Lys Lys Glu Thr Lys Asn Gln Glu Asp Asp Val Glu Gln Pro Phe
 115 120 125

Asn Asp Ser Gly Cys Leu Leu Val Asp Lys Asp Leu Phe Glu Thr Gly
 130 135 140

Leu Glu Asp Glu Asn Asn Ser Pro Leu Glu Asp Glu Glu Ser Leu Glu
 145 150 155 160

Ser Ile Arg Ala Ala Val Lys Asn Lys
 165

<210> 5524

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5524

Gly Gly Thr Gly Ser Glu Cys Arg Ala Gln Gly Glu Ile Gly Ser Pro
 1 5 10 15

Cys Arg Thr Cys Ser Ser Pro Ala Pro Lys Gly Asp Gly Val Trp Ala
 20 25 30

4882

Trp Gly Phe Leu His Val Pro Pro Tyr Pro Asp Pro Ser Ser Gln Ser
 35 40 45

Val Thr Leu Leu Trp Ala Gln Pro Pro Asn Arg Ser His Leu Gly Leu
 50 55 60

Gly Gln Thr
 65

<210> 5525

<211> 172

<212> PRT

<213> Homo sapiens

<400> 5525

Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Asp Ser Ser Lys
 1 5 10 15

Pro Ile Val Arg Glu Ser Trp Met Thr Glu Leu Pro Pro Glu Met Lys
 20 25 30

Asp Phe Gly Leu Gly Pro Arg Thr Phe Lys Arg Arg Ala Asp Asp Thr
 35 40 45

Ser Gly Asp Arg Ser Ile Trp Thr Asp Thr Pro Ala Asp Arg Glu Arg
 50 55 60

Lys Ala Lys Glu Thr Gln Glu Ala Arg Lys Ser Ser Ser Lys Lys Asp
 65 70 75 80

Glu Glu His Ile Leu Ser Gly Arg Asp Lys Arg Leu Ala Glu Gln Val
 85 90 95

Ser Ser Tyr Asn Glu Ser Lys Arg Ser Glu Ser Leu Met Asp Ile His
 100 105 110

His Lys Lys Leu Lys Ser Lys Ala Ala Glu Asp Lys Asn Lys Pro Gln
 115 120 125

Glu Arg Ile Pro Phe Asp Arg Asp Lys Asp Leu Lys Val Asn Arg Phe
 130 135 140

Asp Glu Ala Gln Lys Lys Ala Leu Ile Lys Lys Ser Arg Glu Leu Asn
 145 150 155 160

Thr Arg Phe Ser His Gly Lys Gly Asn Met Phe Leu
 165 170

4884

Arg Tyr Lys Ile Gln Lys Lys Val Arg Glu His His Arg Lys Leu Arg
 35 40 45
 Lys Glu Ala Lys Lys Arg Gly His Lys Lys Pro Arg Lys Asp Pro Gly
 50 55 60
 Val Pro Asn Ser Ala Pro Phe Lys Glu Ala Leu Leu Arg Glu Ala Glu
 65 70 75 80
 Leu Arg Lys Gln Arg Leu Glu Glu Leu Lys Gln Gln Gln Lys Leu Asp
 85 90 95
 Arg Gln Lys Glu Leu Glu Lys Lys Arg Lys Leu Glu Thr Asn Pro Asp
 100 105 110
 Ile Lys Pro Ser Asn Val Glu Pro Met Glu Lys Glu Phe Gly Leu Cys
 115 120 125
 Lys Thr Glu Asn Lys Ala Lys Ser Gly Lys Gln Asn Ser Lys Lys Leu
 130 135 140
 Tyr Cys Gln Glu Leu Lys Lys Val Ile Glu Ala Ser Asp Val Val Leu
 145 150 155 160
 Glu Val Leu Asp Ala Arg Asp Pro Leu Gly Cys Arg Cys Pro Gln Val
 165 170 175
 Glu Glu Ala Ile Val Gln Ser Gly Gln Lys Lys Leu Val Leu Ile Leu
 180 185 190
 Asn Lys Ser Asp Leu Val Pro Lys Glu Asn Leu Glu Ser Trp Leu Asn
 195 200 205
 Tyr Leu Lys Lys Glu Leu Pro Thr Val Val Phe Arg Ala Ser Thr Lys
 210 215 220
 Pro Lys Asp Lys Gly Lys Ile Thr Lys Arg Val Lys Ala Lys Lys Asn
 225 230 235 240
 Ala Ala Pro Phe Arg Ser Glu Val Cys Phe Gly Lys Glu Gly Leu Trp
 245 250 255
 Lys Leu Leu Gly Gly Phe Gln Glu Thr Cys Ser Lys Ala Ile Arg Val
 260 265 270
 Gly Val Ile Gly Phe Pro Asn Val Gly Lys Ser Ser Ile Ile Asn Ser
 275 280 285
 Leu Lys Gln Glu Gln Met Cys Asn Val Gly Val Ser Met Gly Leu Thr
 290 295 300

4885

Arg Ser Met Gln Val Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp
 305 310 315 320
 Ser Pro Ser Phe Ile Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala
 325 330 335
 Leu Arg Ser Pro Ala Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala
 340 345 350
 Ser Ala Ile Leu Ser Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr
 355 360 365
 Thr Val Pro Gly Tyr Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys
 370 375 380
 Ser Glu Lys Arg Tyr Ala Pro Lys Arg Trp Xaa Pro Lys Cys
 385 390 395

<210> 5528

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5528

Gln Ser Gly Arg Gly Gly Asp Arg Gly Arg Ser Lys Val Asp Thr Ser
 1 5 10 15

Ala Lys Pro Phe Ala Val Ile Ser Asp Cys Ala Val Ser Cys Pro Val
 20 25 30

His Gln Ser Pro Leu Val Phe Asp Val Gly Gln Cys Arg Gln His Asp
 35 40 45

4886

Leu Ala Gly Gln Xaa Leu Ile Tyr His Ser Xaa Asp Thr Ser Trp Ser
 50 55 60

Leu Gly Ser Xaa His Pro Met Phe Pro Leu Phe Pro His Leu
 65 70 75

<210> 5529

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5529

Glu Pro Ala Trp Gly Asp Cys Gln Val Ala Lys Gly Lys Glu Arg Val
 1 5 10 15

Ala Asn Cys Leu Leu His Leu Ala Ala Gln Pro Gly Leu Pro Ala Phe
 20 25 30

Lys Gly His Phe Phe Gly Gln Glu Leu Thr Arg Met Ser Pro Glu Ser
 35 40 45

Ser Thr Pro Arg Val Cys Gly Asn His Pro Leu Leu Asn Thr Glu Ser
 50 55 60

Cys Arg Ile Ile Val Gly Lys Glu Ala Thr Ser Ser Glu Ala Val Val
 65 70 75 80

<210> 5530

<211> 155

<212> PRT

<213> Homo sapiens

<400> 5530

Ala Val Thr Ser Leu Lys Ala Pro Val Ile Thr Leu Arg Ser Ser Ser
 1 5 10 15

Ser Asn Cys His Pro Thr Ser Leu Ala Ser Cys Arg Lys Val Asn Leu
 20 25 30

Asp Asn Thr Trp Leu Ser Phe Leu Thr Asn Ala Gly Ser Gly Arg Asn
 35 40 45

Ser Leu Val Leu Lys Ser Lys Asn Thr Asn Cys Leu Arg Phe Ser Asn
 50 55 60

4887

Thr Pro Met Lys Ala Ser His Pro Ser Leu Leu Thr Arg Phe Pro Ala
 65 70 75 80
 Lys Phe Asn Cys Trp Lys Phe Phe Arg Gly Phe Phe Pro Lys Asn Ala
 85 90 95
 Pro Lys Ile Leu Ile Ser Val Ser Val Ser Leu Gln Phe Phe Asn Pro
 100 105 110
 Ser Leu Thr Ser Cys Gly Thr Ser Ser Lys Cys Phe Asn Lys Leu Leu
 115 120 125
 Arg Leu Pro Cys Thr Ser Gln Pro Gln Gly Ser Ile Ser Ala Val Ser
 130 135 140
 Cys Ser Ser Thr Phe Ile Leu Ser Ile Ser Ser
 145 150 155

<210> 5531

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5531

Ile Ile Val Ile Ile Gly Val Ser His His Ala Arg Pro Val Ser Ala
 1 5 10 15
 Phe Ile Lys Ile Val His Ser Phe Ile His Ser Cys Ser Leu Lys Met
 20 25 30
 Leu Phe Arg Lys Glu Phe Asp Lys Ile Asn Ile Ile Gln Asn Ser Lys
 35 40 45
 Lys Lys Glu Xaa Ser Phe Cys Phe Ser His Lys Leu Gly Leu Leu
 50 55 60

<210> 5532

<211> 145

<212> PRT

<213> Homo sapiens

4888

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5532

Lys Gln Pro Pro Leu Gln Ser His Pro Pro Ser Gly Cys Gly Arg Pro
 1 5 10 15

Gly Trp Pro Ala Glu Ala Pro Arg Pro Gly Leu His Pro Ser Ala Gln
 20 25 30

Thr Thr Ala Gly Arg Ala Gly Val Gln Val Gly Gln Leu Pro Pro Phe
 35 40 45

His Pro Ser Pro Pro Leu Leu Arg Pro His Gln Glu Gln Asp Pro Cys
 50 55 60

Ala Ser Val Val Leu Pro Cys Leu Gln Ala Ala Cys Gly Pro Ala Val
 65 70 75 80

Thr Gln Pro Gly Asp Thr Thr Ser Pro Gly Gly Leu Cys Ala Xaa Arg
 85 90 95

His Leu Arg Xaa Trp Lys Pro Ser Cys Gly Arg Arg Leu Gly Glu Gly
 100 105 110

Arg Arg Glu Gly Gly His Ala Ala Ser Val Ala Ser Thr Thr Leu Thr
 115 120 125

Val Pro Trp Arg Trp Leu Ser Pro Asp Arg Gly Gln Thr His Arg Ala
 130 135 140

Arg

145

<210> 5533

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5533

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
 1 5 10 15

4889

His Ala Ser Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser
 20 25 30
 Phe Arg Arg Asp Asn Asn Glu Leu Leu Leu Phe Ile Leu Lys Gln Leu
 35 40 45
 Val Ala Glu Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln
 50 55 60
 Asp Thr Ile Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln
 65 70 75 80
 Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg
 85 90 95
 Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln
 100 105 110
 Phe

<210> 5534

<211> 180

<212> PRT

<213> Homo sapiens

<400> 5534

Phe Ser Gln His Ser Arg Leu Ala Val His Arg Arg Ile His Thr Gly
 1 5 10 15
 Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Asp Arg
 20 25 30
 Ser Ala Phe Ala Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr
 35 40 45
 Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Gln Cys Ser Arg Leu Thr
 50 55 60
 Val His Leu Arg Ile His Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu
 65 70 75 80
 Cys Gly Lys Val Tyr Ser Gln Tyr Ser His Leu Val Gly His Arg Arg
 85 90 95
 Val His Thr Gly Glu Lys Pro Tyr Lys Cys His Glu Cys Gly Lys Ala
 100 105 110

4890

Phe Asn Gln Gly Ser Thr Leu Asn Arg His Gln Arg Ile His Thr Gly
 115 120 125

Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Asn Ser Phe Ser Gln Arg
 130 135 140

Val His Leu Arg Leu His Gln Thr Val His Thr Gly Asp Arg Pro Tyr
 145 150 155 160

Lys Cys Asn Glu Cys Gly Gln Asn Leu Leu Asn Gly Ala Gln Thr Ser
 165 170 175

Leu His Ile Arg
 180

<210> 5535

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5535

Pro Arg Met Ala Thr Gln Arg Lys His Leu Val Lys Asp Phe Asn Pro
 1 5 10 15

Tyr Ile Thr Cys Tyr Ile Cys Lys Gly Tyr Leu Ile Lys Pro Thr Thr
 20 25 30

Val Thr Glu Cys Leu His Thr Phe Cys Lys Thr Cys Ile Val Gln His
 35 40 45

Phe Glu Asp Ser Asn Asp Cys Pro Arg Cys Gly Asn Gln Val His Glu
 50 55 60

Thr Asn Pro Leu Glu Met Leu Arg Leu Asp Asn Thr Leu Glu Glu Ile

4891

65		70		75		80
Ile Phe Lys Leu Val Pro Gly Leu Arg Glu Gln Glu Leu Glu Arg Glu						
	85		90		95	
Ser Glu Phe Trp Lys Xaa Asn Lys Pro Gln Xaa Asn Gly Gln Asp Asp						
	100		105		110	
Thr Ser Lys Ala Asp Lys Pro Lys Val Asp Glu Glu Gly Asp Glu Asn						
	115		120		125	
Glu Asp Asp Lys Asp Tyr Pro Gln Glu Val Thr His Lys Leu Ala Ile						
	130		135		140	
Cys Leu Gly Cys Phe Thr Xaa Leu Met Gly Pro Phe Gly Gly His Val						
	145		150		155	
Gly Lys Gly Phe						

<210> 5536

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5536

Asn Ser Val Lys Phe Cys Leu Lys Lys Pro Leu Ile Glu Phe Glu Asn							
1		5		10		15	
His Lys Pro Phe Gln Val Ser Leu Trp Val Cys Phe Gly Phe Phe Phe							
	20		25		30		
Phe Phe Leu Ser Leu Trp Pro Asn Val Arg Gly Ile Arg Phe Cys Lys							
	35		40		45		
Gln Ala Ala Val Ser Ile Ser							
	50		55				

<210> 5537

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

4892

<400> 5537

Ser Gly Pro Pro Gly Leu His Ser Arg Ser Ser Pro Ala Pro Ser Ala
1 5 10 15
Ser Val Glu Pro Gln Ala Trp Xaa Arg Asp Glu Arg Asp Ala Ala Leu
20 25 30
Ala Arg Gly Arg Pro Ser Ala Pro Lys Thr Arg Glu Gln Ala Pro Gly
35 40 45
Glu Lys Pro Leu Glu Val Ser Trp Ser Arg Glu Ser Pro Val Ser Cys
50 55 60

<210> 5538

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5538

Ala Phe Asp Gly Leu Ser Thr Ser Ser Ser Gln His Ile Leu Pro Ala
1 5 10 15
Val Ala Ala Trp Leu Gly Leu Phe Phe Ser Tyr Pro Asn Pro Met Met
20 25 30
Pro Gly Thr Leu Ile Thr Val Leu His Gln Leu Leu Tyr Phe Ser Val
35 40 45
Tyr Phe His Asn Glu Leu Tyr Cys His Leu Asp Phe Glu Gln Leu Trp
50 55 60
Glu Ile Glu Asp
65

<210> 5539

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5539

Gln Glu Pro Pro Ile Met Ala Glu Gly Lys Gly Gly Val Ser Cys Leu
1 5 10 15

4893

Thr Trp Pro Glu Gln Glu Val Glu Arg Gly Arg Cys His Thr Leu Thr
 20 25 30
 Asn Asn Gln Ile Ser Gly Gln Leu Thr Gln Tyr Gln Glu Asn Ser Thr
 35 40 45
 Thr Lys Leu Trp Leu Ile Ile His Glu Lys Pro Pro Thr Thr Gln Ser
 50 55 60
 Pro Pro Thr Arg Pro Tyr Leu Gln His Leu Gly Leu Gln Phe Asn Met
 65 70 75 80
 Arg Phe Gly Gly Asn Thr Asp Pro Asn His Ile Thr His Lys Leu Gln
 85 90 95
 Leu Leu His Thr His Asp Asn Pro Leu Ile Cys Glu Gly Leu Ile Cys
 100 105 110
 Ser

<210> 5540

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5540

Ser Arg Tyr Tyr Ser Glu Ala Cys Ile Leu Tyr Ala Ser Gly His Val
 1 5 10 15
 Leu Ser Cys Glu Val Arg Cys Ile Ser Tyr Cys Gly Leu Gln Ser Lys
 20 25 30
 Phe

<210> 5541

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5541

Gly Ala Asp Ser Ala Cys Pro Gly Pro Ala Lys Trp Leu Ser Ser Leu
 1 5 10 15
 Arg Ala His Val Val Arg Thr Gly Ile Gly Gln Ala Arg Ala Lys Leu
 20 25 30

4894

Phe Glu Lys Gln Ile Val Gln His Gly Gly Gln Leu Cys Pro Ala Gln
 35 40 45

Gly Pro Gly Val Thr His Ile Val Val Asp Glu Ala Trp Thr Met
 50 55 60

<210> 5542

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5542

Met Ser Gln Ala Gly Asn Ser Glu Val Tyr Leu Ala Ile His Val Phe
 1 5 10 15

Lys Met Ala Ala Ser Arg Arg Phe Thr Gly Val Pro Asp Arg Arg Gly
 20 25 30

Gly Gly Ala Gln Ala Arg Met Lys Leu Glu Leu Ala Arg Ser Arg Lys
 35 40 45

Thr Ile Ala Gly Gly Thr Ala Ser Val Gly Ala Glu Glu Thr
 50 55 60

<210> 5543

<211> 317

<212> PRT

<213> Homo sapiens

<400> 5543

Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser
 1 5 10 15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Lys Ile Ala Ala Arg
 20 25 30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly
 35 40 45

Arg Ile Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val
 50 55 60

Leu Ile Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr
 65 70 75 80

Leu Ala Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu

4895

				85					90					95					
Phe	Phe	Phe	Val	Met	Gly	Thr	Leu	Leu	Arg	Thr	Ser	Phe	Ser	Asp	Pro				
			100					105					110						
Gly	Val	Leu	Pro	Arg	Ala	Thr	Pro	Asp	Glu	Ala	Ala	Asp	Leu	Glu	Arg				
			115				120					125							
Gln	Ile	Asp	Ile	Ala	Asn	Gly	Thr	Ser	Ser	Gly	Gly	Tyr	Arg	Pro	Pro				
			130			135						140							
Pro	Arg	Thr	Lys	Glu	Val	Ile	Ile	Asn	Gly	Gln	Thr	Val	Lys	Leu	Lys				
145					150					155					160				
Tyr	Cys	Phe	Thr	Cys	Lys	Ile	Phe	Arg	Pro	Pro	Arg	Ala	Ser	His	Cys				
				165					170					175					
Ser	Leu	Cys	Asp	Asn	Cys	Val	Glu	Arg	Phe	Asp	His	His	Cys	Pro	Trp				
			180					185					190						
Val	Gly	Asn	Cys	Val	Gly	Lys	Arg	Asn	Tyr	Arg	Phe	Phe	Tyr	Met	Phe				
			195				200						205						
Ile	Leu	Ser	Leu	Ser	Phe	Leu	Thr	Val	Phe	Ile	Phe	Ala	Phe	Val	Ile				
			210			215						220							
Thr	His	Val	Ile	Leu	Arg	Ser	Gln	Gln	Thr	Gly	Phe	Leu	Asn	Ala	Leu				
225					230					235					240				
Lys	Asp	Ser	Pro	Ala	Ser	Val	Leu	Glu	Ala	Val	Val	Cys	Phe	Phe	Ser				
				245					250					255					
Val	Trp	Ser	Ile	Val	Gly	Leu	Ser	Gly	Phe	His	Thr	Tyr	Leu	Ile	Ser				
			260					265					270						
Ser	Asn	Gln	Thr	Thr	Asn	Glu	Asp	Ile	Lys	Gly	Ser	Trp	Ser	Asn	Lys				
		275					280					285							
Arg	Gly	Lys	Glu	Asn	Tyr	Asn	Pro	Tyr	Ser	Tyr	Gly	Asn	Ile	Phe	Thr				
			290			295						300							
Asn	Cys	Cys	Val	Ala	Leu	Cys	Gly	Pro	Ser	His	Gln	Ala							
305					310						315								

<210> 5544

<211> 76

<212> PRT

<213> Homo sapiens

4896

<400> 5544

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Ile Val Gly Leu Phe His Met Cys Ser Leu Lys Tyr Leu Asn Asn His
 1             5             10             15

Ser Phe His Ser Leu Phe Ser Ser Gln Ala Phe Ser Arg Ser Ser Met
          20             25             30

Trp Ile Leu Lys Asp Leu Pro Ser Leu Thr Arg Ile Thr Phe Lys Gly
      35             40             45

Asp Cys Phe Lys Ile Phe Leu Gln Ile Glu Ile Arg Thr Glu Arg Leu
      50             55             60

Arg Asn Ile Val Tyr Phe Ala Lys Thr Arg Cys Leu
      65             70             75

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<210> 5545

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5545

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Glu Thr Leu Val Asn Trp Ser Thr Gly Glu Ser Tyr Lys Trp Pro Met
 1             5             10             15

Ser Gln Lys Ser Trp Asp Leu Leu Pro Ala Ala Ala Asp Ala Asp Arg
      20             25             30

Pro Trp Glu Ala Ala Val Leu Trp Arg Ser Trp Ser Ser Ser Phe Leu
      35             40             45

Gly Leu Ala Trp Leu Pro Gln Lys Glu Gln Ser Gly Leu Glu Gly Ser
      50             55             60

Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu Lys
      65             70             75             80

Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg Leu
          85             90             95

Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Ser Ser
      100             105             110

Arg Gln Gln Ser Gly
      115

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<210> 5546

4897

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5546

Val Gln Ile Asn His Pro Asp Leu Lys Val Asn Thr Phe Tyr Phe Ser
 1 5 10 15

Phe Arg Ser Ile Thr Glu Tyr Ala Ala Phe Arg Tyr Arg Phe Asn Leu
 20 25 30

Pro Asp Phe Leu Lys Ile Leu Tyr Phe Tyr Ile Ala Thr Thr Gly Leu
 35 40 45

Leu Asn Met Gln Leu Asn Cys Tyr Leu Asn Lys Leu His Leu Met Glu
 50 55 60

Lys Lys Lys
 65

<210> 5547

<211> 315

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5547

Asn Ile Glu Gln Glu Asn Glu Lys Leu Lys Ala Glu Leu Glu Lys Leu
 1 5 10 15

Lys Ala His Leu Gly His Gln Leu Ser Met His Tyr Glu Ser Lys Thr
 20 25 30

Lys Gly Thr Glu Lys Ile Ile Ala Glu Asn Glu Arg Leu Arg Lys Glu
 35 40 45

Leu Lys Lys Glu Thr Asp Ala Ala Glu Lys Leu Arg Ile Ala Lys Asn
 50 55 60

Asn Leu Glu Ile Leu Asn Glu Lys Met Thr Val Gln Leu Glu Glu Thr
 65 70 75 80

Gly Lys Arg Leu Gln Phe Ala Glu Ser Arg Gly Pro Gln Leu Glu Gly
 85 90 95

4898

Ala Asp Ser Lys Ser Trp Lys Ser Ile Val Val Thr Arg Met Tyr Glu
 100 105 110

 Thr Lys Xaa Lys Glu Leu Glu Thr Asp Ile Ala Lys Lys Asn Gln Ser
 115 120 125

 Ile Thr Asp Leu Lys Gln Leu Val Lys Glu Ala Thr Glu Arg Glu Gln
 130 135 140

 Lys Val Asn Lys Tyr Asn Glu Asp Leu Glu Gln Gln Ile Lys Ile Leu
 145 150 155 160

 Lys His Val Pro Glu Gly Ala Glu Thr Glu Gln Gly Leu Lys Arg Glu
 165 170 175

 Leu Gln Val Leu Arg Leu Ala Asn His Gln Leu Asp Lys Glu Lys Ala
 180 185 190

 Glu Leu Ile His Gln Ile Glu Ala Asn Lys Asp Gln Ser Gly Ala Glu
 195 200 205

 Ser Thr Ile Pro Asp Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu
 210 215 220

 Glu Thr Gln Leu Lys Met Ser Asp Leu Glu Lys Gln His Leu Lys Glu
 225 230 235 240

 Glu Ile Lys Lys Leu Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe
 245 250 255

 Phe Glu Glu Ile Glu Asp Leu Lys Tyr Asn Tyr Lys Glu Glu Val Lys
 260 265 270

 Lys Asn Ile Leu Leu Glu Glu Lys Val Lys Lys Leu Ser Glu Gln Leu
 275 280 285

 Gly Val Glu Leu Thr Ser Pro Val Ala Ala Ser Glu Glu Phe Glu Asp
 290 295 300

 Glu Glu Glu Ser Pro Val Asn Phe Pro Ile Tyr
 305 310 315

<210> 5548

<211> 191

<212> PRT

<213> Homo sapiens

<400> 5548

Gln Leu Asn Thr Ser Ser Thr Asn His Gln Leu Pro Ser Glu His Gln

4899

1	5	10	15
Thr Ile Leu Ser Ser Arg Asp Ser Arg Asn Ser Leu Arg Ser Asn Phe	20	25	30
Ser Ser Arg Glu Ser Glu Ser Ser Arg Ser Asn Thr Gln Pro Gly Phe	35	40	45
Ser Tyr Ser Ser Ser Arg Asp Glu Ala Pro Ile Ile Ser Asn Ser Glu	50	55	60
Arg Val Val Ser Ser Gln Arg Pro Phe Gln Glu Ser Ser Asp Asn Glu	65	70	75
Gly Arg Arg Thr Thr Arg Arg Leu Leu Ser Arg Ile Ala Ser Ser Met	85	90	95
Ser Ser Thr Phe Phe Ser Arg Arg Ser Ser Gln Asp Ser Leu Asn Thr	100	105	110
Arg Ser Leu Asn Ser Glu Asn Ser Tyr Val Ser Pro Arg Ile Leu Thr	115	120	125
Ala Ser Gln Ser Arg Ser Asn Val Pro Ser Ala Ser Glu Val Pro Asp	130	135	140
Asn Arg Ala Ser Glu Ala Ser Gln Gly Phe Arg Phe Leu Arg Arg Arg	145	150	155
Trp Gly Leu Ser Ser Leu Ser His Asn His Ser Ser Glu Ser Asp Ser	165	170	175
Glu Asn Phe Asn Gln Glu Ser Glu Gly Arg Asn Thr Gly Pro Trp	180	185	190

<210> 5549

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5549

Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe	1	5	10	15
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4900

Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met
 20 25 30

Lys Lys Val Ile Thr Val Leu Ala Ala Cys Leu Glu Ser Glu Asn Gln
 35 40 45

Asn Ala Gln Arg Ile Gly Ala Ala Xaa Leu Trp Ala Leu Ile Tyr Asn
 50 55 60

Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg
 65 70 75 80

Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu
 85 90 95

Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val
 100 105 110

Gln Leu Leu Asn Ser Ser Leu Ser Ala His Gly Met Pro Thr Pro
 115 120 125

<210> 5550

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5550

Leu Asn His Leu Gln Asn Ala Ser Thr Pro Gly Tyr Ser Lys Leu Pro
 1 5 10 15

Phe Gln Ile His Phe Gln Thr Ala Leu Thr Trp Ala Ser His Trp Xaa
 20 25 30

Ser Trp Leu Leu Val Gly Ala Ile Ser Cys Val Asp Pro Gln Val Arg
 35 40 45

Gly Pro Gly Pro Pro Ala Pro Pro Xaa Gln Arg Gly Glu Pro Ala Gln
 50 55 60

4901

Phe Phe Trp Ser Leu Lys Cys Val Pro Leu Leu Val Ala Arg Ser Pro
 65 70 75 80

Gln Trp Gly Gly Leu Thr Arg Thr Arg
 85

<210> 5551

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5551

Ala Arg Gln Val Lys Ser Leu Arg Asp Pro Ser Ala Lys Met Ser Lys
 1 5 10 15

Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile Thr Asp Ser Pro Glu
 20 25 30

Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr Asp Phe Thr Ser Glu
 35 40 45

Val Thr Tyr Asp Pro Ala Gly Arg Ala Gly Val Ser Asn Ile Val Ala
 50 55 60

Val His Ala Ala Val Thr Gly Leu Ser Val Glu Glu Val Val Arg Arg
 65 70 75 80

Xaa Ala Gly Xaa Glu His Cys Ser Leu Gln Ala Gly Arg Gly Arg Cys
 85 90 95

Cys Asp

<210> 5552

<211> 74

<212> PRT

<213> Homo sapiens

4902

<400> 5552

Thr Glu Glu Val Asp Ser Val Ala Val Ser Val Leu Ala Leu Gly Ser
1 5 10 15

Arg Ile Gly Glu Leu Arg Ala Pro Ile Trp Asp Glu Glu Ser Arg Lys
20 25 30

Gln Leu Ser Ile Ser Ile Lys Arg Ala Glu Gln Pro Leu Ser Leu His
35 40 45

Pro Pro Ser Ala Leu Phe Ser Leu Pro Pro Ser Leu Leu Ser Phe His
50 55 60

Ser Val Tyr Val Ser Phe Gly Pro Ile Pro
65 70

<210> 5553

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5553

Gly Thr Gly Ser Gln Cys Thr Gln His Gly Ala Ile Ser Asp Val Ile
1 5 10 15

Gln Arg Met Arg Gln Asp Lys Ser Tyr Cys Leu Ile Lys Gly Lys Leu
20 25 30

Gly Thr Gly Met Leu Phe Lys Leu Arg Lys Ile Phe Trp Gly Val Lys
35 40 45

Leu Asp Ser Thr Glu Ser Leu Glu Lys Leu Ala Trp Arg Glu Lys Arg
50 55 60

His
65

<210> 5554

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

4903

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5554

Ala	Pro	Thr	Asn	Leu	Phe	Phe	Phe	Phe	Phe	Phe	Glu	Thr	Glu	Ser	Gly
1				5				10						15	

Cys	Ala	Ser	His	Phe	Leu	Ser	Phe	Xaa	Xaa	Ser	Glu	Leu	Thr	Glu	Gln
			20					25					30		

Pro	Gly	Arg	Cys	Gly	Phe	Arg	Ser	Leu	Xaa	Leu	Ser	Xaa	Cys	Ala	Lys
		35					40					45			

Cys	Trp	Gly	Arg	Arg	Xaa	Gln	Arg	Val	Asp	Ser	Gly	Met	Val	Pro	Ala
	50					55					60				

Ala	Ser	His	Phe	Tyr	Ala	Lys	Pro	Asp	Phe	Xaa	Ser	His	Pro	Gly	Gly
	65					70				75					80

Gln Phe

<210> 5555

<211> 47

<212> PRT

<213> Homo sapiens

4904

<400> 5555

Ile Phe Ile Ile Glu Val Ser Phe Pro Leu Gly Ile Ser Leu Ser Leu
 1 5 10 15

Phe Phe Phe Asn Glu Asn Gln Ser Thr Glu Tyr Phe Val Ser Pro Arg
 20 25 30

Lys Thr Pro Gln Leu Ser Ile Met Leu Ser Thr Arg Glu Lys Leu
 35 40 45

<210> 5556

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5556

Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys
 1 5 10 15

Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile
 20 25 30

Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn
 35 40 45

Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe
 50 55 60

Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu
 65 70 75 80

Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln
 85 90 95

Met Gln Asn Pro Tyr Ser Xaa His Ser Ser Met Pro Arg Pro Asp Tyr
 100 105 110

<210> 5557

4905

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5557

Phe	Thr	Ala	Arg	Ser	Pro	Trp	Glu	Tyr	Thr	Asn	Leu	Cys	Ser	Arg	Gln
1				5					10					15	

Leu	Gly	Ala	Ser	Leu	Leu	Glu	Thr	Val	Leu	Ile	Phe	Phe	Phe	Leu	Ser
			20					25					30		

Glu	Phe	Gln	Leu	Ile	Leu	Thr	Ile	Val	Gly	Thr	Ile	Ala	Gly	Ile	Val
		35					40					45			

Ile	Leu	Ser	Met	Ile	Ile	Ala	Leu	Ile	Val	Thr	Ala	Arg	Ser	Asn	Asn
	50					55					60				

Lys	Thr	Lys	His	Ile	Glu	Glu	Glu	Asn	Leu	Ile	Asp	Glu	Asp	Phe	Gln
65					70					75					80

Asn	Leu	Lys	Leu	Arg	Ser	Thr	Gly	Phe	Thr	Asn	Leu	Gly	Ala	Glu	Gly
			85						90					95	

Ser	Val	Phe	Pro	Lys	Val	Arg	Ile	Thr	Ala	Ser	Arg	Asp	Ser	Gln	Met
			100					105					110		

Gln	Asn	Pro	Tyr	Ser	Ser	His	Thr	Gln	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Xaa	Lys
	130					135					140				

Lys	Lys	Xaa	Lys	Lys	Lys	Xaa	Gly
145					150		

4906

<210> 5558

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5558

Phe	Phe	Xaa	Val	Xaa	Glu	Lys	Ser	Ile	Leu	Leu	Val	Ser	Leu	Xaa
1			5					10					15	

Val	Cys	Leu	Val	Leu	Ser	Glu	Ile	Pro	Phe	Met	Ser	Thr	Trp	Phe	Leu
			20					25					30		

Leu	Val	Ser	Thr	Phe	Ser	Met	Leu	Pro	Leu	Leu	Xaa	Lys	Asp	Glu	Leu
			35				40					45			

Leu	Met	Pro	Ser	Val	Val	Thr	Thr	Met	Ala	Phe	Phe	Ile	Ala	Cys	Val
						55					60				

Thr	Ser	Phe	Ser	Ile	Phe	Glu	Lys	Thr	Ser	Glu	Glu	Glu	Leu	Gln	Leu
65					70					75				80	

Lys	Ser	Phe	Ser	Ile	Ser	Val	Arg	Lys	Tyr	Leu	Pro	Cys	Phe	Thr	Phe
				85				90						95	

Leu	Ser	Arg	Ile	Ile	Gln	Tyr	Leu	Phe	Leu	Ile	Ser	Val	Ile	Thr	Met
			100					105					110		

Val	Leu	Leu	Thr	Leu	Met	Thr	Val	Thr	Leu	Asp	Pro	Pro	Gln	Lys	Leu
			115					120					125		

4907

Pro Asp Leu Phe Ser Val Leu Val Cys Phe Val Ser Cys Leu Asn Phe
 130 135 140

Leu Phe Phe Leu Val Tyr Phe Asn Ile Ile Ile Met Trp Asp Ser Lys
 145 150 155 160

Ser Gly Arg Asn Gln Lys Lys Ile Ser
 165

<210> 5559

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5559

Gly Trp Arg His Gly Gly Glu His His Gln Asp His Val Glu Leu Gly
 1 5 10 15

Arg Asp Cys Pro Pro Lys Lys Asn Ile Gly Pro Leu Gln Ala Gln Pro
 20 25 30

Pro Leu Pro Leu Glu Phe Phe Ser Gln Ala Gln Cys Gln Lys Phe Ser
 35 40 45

Leu Gly Trp Xaa Gln Ile Cys Xaa Thr Gly Phe Pro Xaa Ser Ser Thr
 50 55 60

Leu Pro Pro
 65

<210> 5560

<211> 115

4908

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5560

Ser	Ser	Lys	Cys	Gly	Phe	Ser	Cys	Ile	Ser	Gln	Ile	Gly	Arg	Pro	Gly
1				5				10					15		

Val	Val	Gly	Val	Pro	Gly	Gly	Arg	Leu	Trp	Ala	Gly	Ser	Gln	Asp	Pro
		20					25						30		

Pro	Phe	Leu	Gly	Gly	Asp	Arg	Ala	Cys	Gly	Ala	Ala	Pro	Arg	Asn	Val
		35					40					45			

Arg	Arg	Lys	Arg	Glu	Arg	Ala	Leu	Ala	Pro	Ser	Ala	Ser	Cys	Leu	Arg
		50				55					60				

Cys	Trp	Arg	Leu	Pro	Ile	Arg	Trp	Phe	Tyr	Pro	Gln	Thr	Pro	Gly	His
65					70					75					80

Arg	Glu	Ser	Arg	Arg	Lys	Gly	Gln	Pro	Arg	Ile	Pro	Ala	Gly	Phe	Leu
				85					90					95	

His	Arg	Gly	Ala	Ser	Gln	Phe	Leu	His	Leu	Ile	Phe	Xaa	Ser	Cys	Gly
			100					105					110		

Arg	Cys	Tyr
		115

<210> 5561

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4909

<221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (193)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5561
 Glu Glu Ala Ala Lys Ala Ala Gly Thr His Phe Thr Ser Gln Gln Leu
 1 5 10 15

 Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp Met Ser
 20 25 30

 Thr Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Ala Arg Val
 35 40 45

 Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg
 50 55 60

 Asn Gln Gln Ala Glu Leu Cys Lys Asn Gly Phe Gly Pro Gln Phe Asn
 65 70 75 80

 Gly Leu Met Gln Pro Tyr Asp Asp Met Tyr Pro Gly Tyr Ser Tyr Asn
 85 90 95

 Asn Trp Ala Ala Lys Gly Leu Thr Ser Ala Ser Leu Ser Thr Lys Ser
 100 105 110

 Phe Pro Phe Phe Asn Ser Met Asn Val Asn Pro Leu Ser Ser Gln Ser
 115 120 125

 Met Phe Ser Pro Pro Asn Ser Ile Xaa Ser Met Ser Met Xaa Ser Ser
 130 135 140

4910

Met Val Pro Ser Ala Val Thr Gly Val Pro Gly Ser Ser Leu Asn Ser
 145 150 155 160

Leu Asn Asn Leu Asn Asn Leu Ser Ser Pro Xaa Leu Asn Ser Ala Val
 165 170 175

Pro Thr Xaa Ala Cys Pro Tyr Ala Pro Pro Thr Ser Ser Val Cys Leu
 180 185 190

Xaa Gly His Val Xaa Ser Ser Leu Ala Ser Leu Arg Leu Lys Ala Lys
 195 200 205

Gln Xaa
 210

<210> 5562

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5562

Thr Leu Thr Val Gln Val Val His Cys Asn Glu Val Thr His Ile Cys
 1 5 10 15

Trp Leu His Lys Leu Gln Val Leu Leu Ser Gln Tyr Gly Thr Leu Asn
 20 25 30

Cys Asp Val Val Gln Gln Leu Pro Ala Ser Ser Gln Leu Ile Arg Cys
 35 40 45

Glu Tyr Phe Gly Leu Asp Leu Gln Pro Asp Ala Val Leu Gln Pro Lys
 50 55 60

Lys Lys Val Glu Pro Met Ile Lys Asn Cys Ser Gln Asp Glu Pro Gly
 65 70 75 80

Lys Lys Ser Ala Lys Leu Pro Trp Arg Ser Ala Gly Thr Leu Val Met
 85 90 95

Thr Gly Ile Thr Pro
 100

<210> 5563

<211> 117

<212> PRT

<213> Homo sapiens

4911

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5563

Ile Pro Pro Ala Gln Leu Trp Gln Arg Leu Leu Ala Leu Val Ile Ser
 1 5 10 15

Ser Ile Ile Gln Ile His Tyr His Pro Asn Pro Ser Pro Ile Phe Gly
 20 25 30

Leu Gly Glu Lys Asn Met Asn Tyr Asp Asp Arg Thr Ser Ser Lys Pro
 35 40 45

Ser Pro Val Leu Ser Glu Tyr Pro Phe Trp Gly Cys Ile Pro Gln Lys
 50 55 60

Pro Ile Trp Gly Pro Ile Ser Met Tyr Thr Glu Leu Lys Phe Gln Val
 65 70 75 80

Pro Leu Cys Ile Lys Arg Ser Gln Asn Phe Gly Gln Ala Xaa Gly Thr
 85 90 95

Leu Lys Ser His Gln Cys Asn Tyr Thr Leu Glu Ile Ile Asn Pro Ser
 100 105 110

His Asp Tyr Ile Ser
 115

<210> 5564

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5564

Leu Pro Val Phe Glu Asp Val Gly Arg Val Cys Lys Tyr Ser Ala Phe
 1 5 10 15

Pro Leu Thr His Ala Gly Glu Asp Ala Ser Ser Leu Ala Pro Ala Val
 20 25 30

Arg Ala Gln Ile Ala Arg Val Lys Thr Ser Ser Leu Gly Arg Glu Val
 35 40 45

Cys Arg Gly Leu Glu Val Ile
 50 55

4912

<210> 5565

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5565

Lys Leu Lys Glu Ile Lys Lys Leu Leu Glu Glu Asn Ala Gly Ile Asn
1 5 10 15

Leu Tyr Asp Leu Arg Leu Gly Ser Gly Phe Leu Asp Met Thr Pro Lys
20 25 30

Ala Lys Gln Gln Lys Lys Glu Asn Leu Lys Trp Met Ser Ser Glu
35 40 45

<210> 5566

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5566

Gly Pro Val Leu His Gln Arg Ile Leu Ile Ser Ala Ser Gly Val Gly
1 5 10 15

Glu Xaa Arg Xaa Ile Tyr Ile Gly Gln Asn Arg Gly Val Glu Gln Asp
20 25 30

Tyr Ser Ile Phe
35

<210> 5567

<211> 67

<212> PRT

<213> Homo sapiens

4913

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5567

Pro Gly Ala Val Val Gly Val Xaa Arg Val Met Thr Trp Ser Gly Trp
 1 5 10 15

Ala Trp Ala Asp Val His Ile Val Cys Thr Leu Asp Pro Trp Pro Arg
 20 25 30

Arg Thr Gln Ile Leu Thr Ser Arg Asn Phe His Leu Met Asn Ile Met
 35 40 45

Arg Ile Gly Gly Lys Glu Asn Ser Leu Tyr Arg Ile Asn Pro Ser Phe
 50 55 60

Leu Gln Gly
 65

<210> 5568

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5568

Glu Asn Ala Phe Gln Asp Leu Ser Ser Thr His Pro Leu Ser Leu Pro
 1 5 10 15

Gln Pro His Ile Trp Gly His Asn Ser Thr Cys Val Lys Asp Asn Leu
 20 25 30

Leu Leu Phe Thr Glu Pro Pro Gly Ile Gln Asp Asn Lys Xaa Leu His
 35 40 45

Xaa Asp Gln Gln Val Ser Phe Ser Ala Pro Ser Phe Ile Thr Pro Phe
 50 55 60

4914

Phe Pro Ser Glu Val His Thr His Pro Tyr Met Ala Ala Val Gly Ile
 65 70 75 80

Ser Thr Gly

<210> 5569

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5569

Met Val Leu Ser Pro Ser Gly Val Ser Lys Cys Ile Arg Lys Gln Asn
 1 5 10 15

Ser Val Val Ser His Ser Ser Leu Cys Ala Arg Cys Leu Arg Arg Gly
 20 25 30

Ser Tyr Arg Ser Pro Arg Xaa Asn Gln Ala His Leu Ser Leu Gly Val
 35 40 45

Gly Gln Ser Gly Lys Ala Phe Trp Lys Met
 50 55

<210> 5570

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5570

Ser His Thr Thr Lys Asn Thr Asp Phe Thr Asp Leu Val Leu Glu Asn
 1 5 10 15

4915

His Tyr Thr Asn Ser Asn Asn Asn Ala Pro Gly Thr Lys Gly Glu Glu
 20 25 30
 Met Ser Ser Arg Val Gly Ile Leu Phe Lys Cys Leu Val Phe Asn Lys
 35 40 45
 Asn Asn Tyr Lys Thr Gln Ser Lys Thr Arg Lys Tyr Gly Pro Tyr Pro
 50 55 60
 Gly Lys Asn Lys Gln Pro Ile Glu Ala Val Leu Glu Glu Val Asn Ile
 65 70 75 80
 Leu Asp Leu Leu Glu Asn Asp Phe Asn Xaa Ser Ile Ile Asn Met Phe
 85 90 95
 Xaa Lys Leu Lys Glu Ala Arg Cys Gly Gly Ser Arg Leu
 100 105

<210> 5571

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5571

Asn Asp Asn Lys Gly Phe Arg Thr Ile Thr Ala Ser Ala Pro Gly Pro
 1 5 10 15
 Thr Pro Ser Ser Glu Arg Arg Ser Val Val Gly Asn Met Leu Ser Asn
 20 25 30
 Ser Val Thr Cys Tyr Arg Gly Ile Phe Gly Glu Arg Lys Ser Gln Cys
 35 40 45
 Gly Lys Leu His Cys Cys Leu Ile Leu Ile Ala Thr Ala Thr Ser Thr
 50 55 60
 Phe Ser Asn His His Pro Asp Ser Val Ser Ser His Gln His Gln Gly
 65 70 75 80
 Glu Thr Leu Tyr His Gln Lys Asp Tyr Asn Leu Leu Lys Ala Gln Met
 85 90 95
 Ile Ile Ser Ile Phe
 100

<210> 5572

4916

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5572

Asp Arg His Ala Leu Gln Ile Phe Leu Tyr Lys Ser Gly Ser Leu Phe
 1 5 10 15

Pro Ile Val Leu Thr Leu Arg Leu Ser Val Gly Leu Pro Ile Arg Phe
 20 25 30

Thr Ala Val Gln Val His Lys Met
 35 40

<210> 5573

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5573

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
 1 5 10 15

Ala Ser Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu Asn
 20 25 30

His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn Glu
 35 40 45

Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
 50 55

<210> 5574

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5574

Ser Lys Asp Leu Val Phe Phe Thr Gln His Val Ser Arg Ile His Lys
 1 5 10 15

Phe Tyr Cys Phe Ile Ala Val Ile Phe Ile Asp Val Tyr Phe Ile Val
 20 25 30

Gly Leu Tyr Asn Ile Leu Leu Arg Asn Thr Tyr Ile Tyr Asn Lys Leu
 35 40 45

4917

Tyr Ile Phe
50

<210> 5575

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5575

Tyr Cys Ser Phe Ser Ser Phe Phe Ala Val Ala Ser Ser Ser Leu Val
1 5 10 15

Lys Thr Leu Lys Lys Asn Thr Ala Leu Pro Trp Glu Ile Ile Thr Leu
20 25 30

Pro Asn Thr Pro Leu Val Gly Asn Lys Arg Phe Tyr Gly Thr Xaa Xaa
35 40 45

Lys Lys Xaa Ser Thr Cys Pro Phe Phe Leu Pro Val
50 55 60

<210> 5576

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5576

Ser Ser Gln Ile Lys Pro Pro Glu Ser Pro His Tyr Lys Ile Gln Ser
1 5 10 15

Tyr His Ala Ser Leu Pro Ser Val Tyr Lys Ile Cys Pro Ser Leu Gln
20 25 30

4918

Leu Gly Glu Thr Asp Leu Gly Gln Thr Pro Val Ser Leu Leu Gly Cys
 35 40 45

Leu Ala Ile Asn Phe Ser Leu Tyr Lys Thr Pro Val Leu Gln Cys Leu
 50 55 60

Val Phe Gln Cys Glu Pro Gly Asn
 65 70

<210> 5577

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5577

Val Leu Asn Lys Ser Leu Leu Tyr Glu Asn Lys Gln Tyr Phe Leu Tyr
 1 5 10 15

Leu Ser Phe Gly Cys Ile Phe Pro Tyr Phe Val Ile Ser Phe Phe Leu
 20 25 30

Thr Phe Tyr Xaa Xaa Ile Leu Thr Leu Phe Leu Ser Phe Ala Ser Val
 35 40 45

Phe Pro Arg Arg Val Leu Trp Leu Lys Cys Ile Thr Cys Lys Ile Glu
 50 55 60

<210> 5578

<211> 43

<212> PRT

<213> Homo sapiens

<220>